

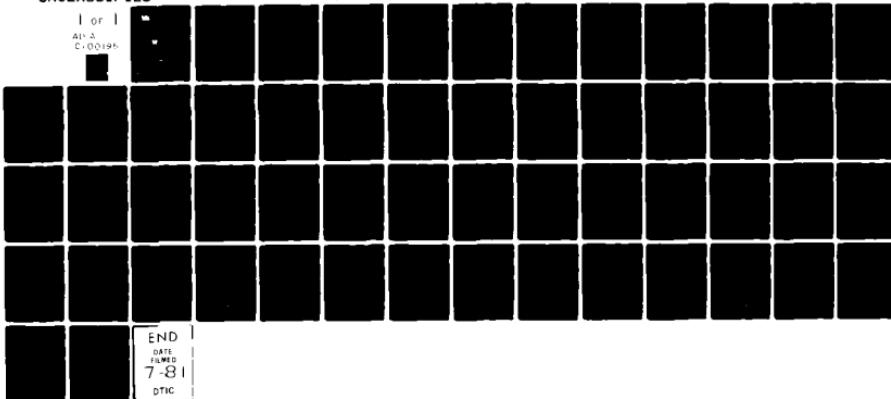
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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX F/G 5/9
AUTOMATIC TRACKING RADAR CAREER LADDER, AFSC-305X3. ELECTRONICS--EICL
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OCCUPATIONAL
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REPORT.

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ELECTRONICS PRINCIPLES INVENTORY (EPI)

AUTOMATIC TRACKING RADAR CAREER LADDER

AFSC-303X3

AFPT-90-XXX-222

FEB 1981

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OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78148

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PREFACE

This report presents the preliminary results of an Air Force Electronics Principles Survey of the Automatic Tracking Radar career ladder (AFSC 303X3). The project was undertaken at the request of Mr. James R. Haupt, Training Manager, Keesler AFB, MS. Authority for conducting electronics principles inventories is contained in AFR 35-2. Computer printouts from which the report was produced are available for use by operating and training officials.

The Electronics Principles Inventory (EPI) was originally developed by Mr. Hendrick W. Ruck and Major Thomas J. O'Conner in 1976. It was revised and updated by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, in 1979.

Captain Michael D. Hill and Mr. Guy B. Cole analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78148.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78148.

This report has been reviewed and is approved.

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ELECTRONIC PRINCIPLES INVENTORY REPORT
AUTOMATIC TRACKING RADAR CAREER LADDER
(AFSC 303X3)

INTRODUCTION

This is a preliminary report of the Electronic Principles Survey of the Automatic Tracking Radar career ladder (AFSC 303X3). It was completed by the Occupational Analysis Branch, USAF Occupational Measurement Center in February 1981. This preliminary report is intended primarily to provide an overview of electronic principles data by skill levels for immediate use by technical training school personnel. A more comprehensive display of the electronic principles data will be provided in a follow-on report to be published in a few months.

Purpose

The aim of the electronic principles survey program is to provide reliable data on the extent electronic fundamentals training is actually used in the performance of various Air Force jobs.

General Background

The EPI is a knowledge based job inventory which identifies the range of electronic principles personnel must understand to perform any electronics oriented job. Training managers can use EPI data in conjunction with OSR data to determine precisely what specialists do and what electronic principles they employ on the job. By using EPI and OSR data in this manner, training managers satisfy one of the most important aspects of the instructional systems development (ISD) process:

Determine what specialists do on the job before developing a course to train individuals to perform the job.

The USAF Occupational Measurement Center provides job performance data to training personnel in the form of occupational survey reports and training extracts. Such data are presented in task statements which are quantified according to percent members performing, percent time spent, task difficulty, and training emphasis. This task statement data provides a very precise picture of the kinds of functions personnel in a specific AFSC or shred actually perform at a specific point in time. If OSR data is properly applied, it can be a powerful tool in the design of training content.

However, OSR task statements are difficult to translate into knowledge requirements. This is especially true of tasks which require some degree of electronic knowledge. Prior to the development of the EPI, training managers and command representatives had to rely on subjective interpretations of task statements to arrive at the kinds of knowledge required to perform electronic oriented tasks. This requirement of a more objective criteria for determining the amount of electronic knowledge necessary to perform the job resulted in the development of the EPI.

History

The initial request to develop a method of determining electronic fundamentals used on the job was made by Major General Charles G. Cleveland, the Deputy Chief of Staff, Technical Training, Air Training Command, in 1974. At the time, General Cleveland needed some means of accurately measuring how much electronic fundamentals training was actually used on the job. He envisioned using EPI data to streamline training by eliminating "nice to know" information in the area of electronic theory.

At the general's request, Dr. Walter E. Driskill, Chief of the Occupational Analysis Branch, set up a task force to conceptualize, develop, and apply a method for measuring job usage of electronic principles. The task force was composed of personnel from the Occupational Analysis Branch who were well qualified in theoretical physics and electronics. These personnel also had considerable expertise in task analysis and survey development. With the assistance by these individual, electronic experts from five ATC Technical Training Centers, averaging 12 years maintenance experience and four years of electronic principles instruction experience, spent three weeks working on the development of the EPI. This tentative EPI was then reviewed and refined by over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFSC as well as personnel at the Electronic Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory. The resulting EPI contained 1,257 items under 62 subject matter areas covering all electronic principles training given at the five ATC Technical Training Centers.

During 1977, this EPI was administered to more than 11,000 airmen in 54 different Air Force specialties. Since the aim of the EPI was to determine the extent electronic fundamentals training was actually used in the performance of Air Force jobs, the logical person to survey was one at the worker level with sufficient time on the job to understand all that it entailed. Consequently, only 5-skill level personnel with more than 18 months active duty service were surveyed. Results from this project were used extensively by the various training managers to refine their respective plans of instruction.

This original EPI was revised in 1978 and 1979 to more accurately reflect some of the computer oriented and various other electronic principles. The revision was accomplished by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, after consultation with electronic principles instructors at each of the technical training centers. Following this extensive review, the EPI was reprinted in its current format.

Description

The EPI differs from the usual task oriented survey in two major respects. First, the EPI asks two general questions: "what do you do?" and what electronic knowledge do you use in performing your job?" The usual task survey concentrates on only one question: "what do you do?" The second difference is the EPI can be administered to anyone who works with electronics. That is, it is general in nature, unlike the usual job inventory which is aimed at a single specialty within a career field.

Administration

This Electronic Principles inventory was administered to personnel in the Automatic Tracking Radar (AFS 303X3) career ladder during the period January through June 1980. Personnel were selected to participate in this survey so as to insure an accurate representation across all MAJCOMs and paygrade groups. Table 1 reflects the major command distribution of personnel assigned as of the fall of 1980 and the distribution of incumbents in the survey sample. The 316 members making up the final sample represent 27 percent of the 1,161 total assigned. Table 2 shows the paygrade distribution of the sample as compared to the assigned strength. Although the number of airmen sampled was quite small, the sampling in the E-4 through E-6 was very adequate and should provide an accurate representation of electronic principles characteristically used by personnel in this ladder.

TABLE 1
COMMAND REPRESENTATION OF SURVEY SAMPLE

<u>MAJOR COMMAND</u>	<u>PERCENT ASSIGNED</u>	<u>PERCENT SAMPLED</u>
SAC	50	62
TAC	28	25
PACAF	4	3
ATC	3	4
AFSC	3	4
USAFE	2	1
AFCC	1	1
AAC	1	0
OTHER	<u>8</u>	<u>0</u>
TOTAL	100	100

TOTAL 303X3 ASSIGNED - 1,161
TOTAL 303X3 SAMPLED - 316
PERCENT SAMPLED - 27%

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

<u>PAYGRADE</u>	<u>PERCENT ASSIGNED</u>	<u>PERCENT SAMPLED</u>
AIRMEN	31	3
E-4	31	33
E-5	32	37
E-6	10	18
E-7	6	8
E-8	*	0
NOT REPORTED	-	1
TOTAL	100	100

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,332 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the six selected groups identified for this report. Pages 2-46 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 3. For example, the Transformers area results are given on pages 6-7 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Meters/Multimeters (p. 3), Soldering (p. 10), and Oscilloscopes (p. 12) to low in areas such as Infrared (pp. 42-43), Lasers (pp. 43-44), and Display Tubes (p. 44-45). The 3-skill level column is presented for comparison purposes only. Because of the small sample size of this group, these 3-skill level data should not be used in developing training standards or plans of instruction.

TABLE 3
EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREAS TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
1	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A16	2
3	RESISTORS/RESISTIVE CIRCUIT	A29	2
4	METER/MULTIMETER	B64	3
5	ALTERNATING CURRENT	B72	4
6	INDUCTORS/INDUCTIVE REACTANCE	B79	4
7	CAPACITORS AND CAPACITIVE	C104	5
8	TRANSFORMERS	C136	6
9	MAGNETISM	C176	7
10	RCL CIRCUITS	D188	7
11	TIME CONSTANTS	D234	9
12	FILTERS	D241	9
13	COUPLING	E257	10
14	SOLDERING	E268	10
15	RELAYS	E281	11
16	MICROPHONES AND SENSING DEVICES	F299	11
17	SPEAKERS	F313	12
18	OSCILLOSCOPES	F328	12
19	SEMICONDUCTOR DIODES	G346	12
20	TRANSISTORS	G388	14
21	TRANSISTOR AMPLIFIERS	G412	15
22	SOLID-STATE SPECIAL PURPOSE DEVICES	H458	17
23	POWER SUPPLIES	H472	18
24	OSCILLATORS	H502	19
25	MULTIVIBRATORS	I533	19
26	LIMITERS AND CLAMPERS	I548	20
27	ELECTRON TUBES	I558	20
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J597	21
29	SPECIAL PURPOSE ELECTRON TUBES	J604	22
30	HETERODYNING AND MODULATION-DE MODULATION (MODEMS)	J618	22
31	AM SYSTEMS	K625	22
32	FM SYSTEMS	K645	23
33	NUMBERING SYSTEMS	K667	24
34	LOGIC FUNCTIONS	L691	25
35	BOOLEAN EQUATIONS	L724	26
36	COUNTERS	L736	27
37	TIMING CIRCUITS	L758	27
38	USE OF SIGNAL GENERATORS	M770	28

TABLE 3 (CONTINUED)

EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREAS TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
39	MOTORS AND GENERATORS	M784	28
40	METER MOVEMENTS	N814	29
41	SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	N826	29
42	WAVESHAPING CIRCUITS	N838	30
43	SINGLE OR INDEPENDENT SIDEBAND SYSTEMS	0852	30
44	PULSE MODULATION SYSTEMS	0882	31
45	ANTENNAS	0922	33
46	TRANSMISSION LINES	P965	34
47	WAVEGUIDES AND CAVITY RESONATORS	P995	35
48	MICROWAVE AMPLIFIERS AND OSCILLATORS	P1038	37
49	REGISTERS	Q1115	39
50	STORAGE DEVICES	Q1122	40
51	DIGITAL TO ANALOG AND ANALOG TO DIGITAL CONVERTERS	Q1149	41
52	PHANTASTRONS	Q1165	41
53	SCHMITT TRIGGERS	Q1166	41
54	CABLE FABRICATION	R1169	41
55	INPUT/OUTPUT (PERIPHERAL) DEVICES	S1171	41
56	PHOTO SENSITIVE DEVICES	S1185	42
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1186	42
58	INFRARED SYSTEMS	T1195	42
59	LASERS	T1223	43
60	DISPLAY TUBES	T1257	44
61	TELEVISION	T1273	45
62	PROGRAMMING	U1283	45
63	DB AND POWER RATIOS	U1327	46

APPENDIX A

A1

PCT MBS RESP "YES"- 303X3 DAFSC/CONUS/OS GRPS

TABULATION OF PERCENT MEMBERS RESPONDING "YES" TO USE OF ELECTRONIC PRINCIPLES
BY 303X3 DAFSC/CONUS/0-SEAS GROUPS IN THE 3C3X1,2,3 EPI CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX

GROUP IDENTITY	SPC018	ALL AMN DAFSC	303X3 - ALL	CONTAINING 316 MEMBERS.
GROUP IDENTITY	SPC019	ALL AMN DAFSC	303X3 - 3 SKL	CONTAINING 1 MEMBERS.
GROUP IDENTITY	SPC020	ALL AMN DAFSC	303X3 - 5 SKL	CONTAINING 195 MEMBERS.
GROUP IDENTITY	SPC021	ALL AMN DAFSC	303X3 - 7 SKL	CONTAINING 120 MEMBERS.
GROUP IDENTITY	SPC022	ALL AMN DAFSC	303X3 - 9 SKL	CONTAINING 12 MEMBERS.
GROUP IDENTITY	SPC027	ALL AMN DAFSC	303X3 IN CONUS - CONUS	CONTAINING 34 MEMBERS.
GROUP IDENTITY	SPC028	ALL AMN DAFSC	303X3 OVERSEAS - OVERSEAS	CONTAINING 160 MEMBERS.

PCT MBR'S RESP *YES*- 303X3 DAFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

DY-TSK

A 1 MATH - USE INSTRUMENTS, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE READINGS BY POWERS OF 10	64	100	71	53	67	65	72	MATHEMATICS
A 2 MATH - USE PUBLICATIONS, IN WHICH IT IS NECESSARY TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE APPLYING THE INFORMATION	43	0	41	47	67	41	42	
A 3 MATH - REARRANGE AND SOLVE FORMULAS OR EQUATIONS	42	0	42	43	58	56	40	
A 4 MATH - CALCULATE THE SQUARE ROOT OF A QUANTITY	20	0	18	23	42	18	19	
A 5 MATH - SOLVE FOR UNKNOWN QUANTITIES	28	0	30	25	50	32	29	
A 6 MATH - CONVERT NUMBERS TO LOGARITHMS	12	0	13	12	58	24	11	
A 7 MATH - USE LOGARITHM TABLES IN CALCULATIONS	16	0	15	18	58	29	13	
A 8 MATH - SOLVE QUADRATIC EQUATIONS	9	0	8	10	17	15	7	
A 9 MATH - USE THE NATURAL SYSTEM OF LOGARITHMS	8	0	8	8	50	24	5	
A 10 MATH - PERFORM CALCULATIONS ON VECTOR QUANTITIES	24	0	24	26	42	35	21	
A 11 MATH - WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT	44	0	44	44	58	53	42	
A 12 MATH - DETERMINE AREAS OF PLANE FIGURES SUCH AS AREAS OF CIRCLES, OR TRIANGLES	9	0	9	10	17	12	8	
A 13 MATH - SOLVE OR USE SIMULTANEOUS EQUATIONS	0	0	11	8	8	15	10	
A 14 MATH - SOLVE OR USE PROPORTIONS	20	0	19	20	58	21	29	
A 15 MATH - USE MATHEMATICAL EXPONENTS OR SUBSCRIPTS IN OTHER THAN POWERS OF 10	24	0	24	26	50	18	25	
A 16 2 DC - USE THE TERM VOLTAGE OR VOLT (V)	77	100	77	77	92	68	79	DIRECT CURRENT AND VOLTAGE
A 17 2 DC - USE THE TERM ELECTROMOTIVE FORCE (EMF)	32	0	32	32	67	26	32	
A 18 2 DC - USE THE TERM OHM	75	100	76	74	92	68	78	
A 19 2 DC - USE THE TERMS ION	17	0	16	18	42	16	16	
A 20 2 DC - USE THE TERM DYNE	8	0	7	9	25	12	6	
A 21 2 DC - USE THE TERM AMPERE	74	100	75	72	92	58	77	
A 22 2 DC - USE THE TERM NEUTRON	11	0	12	9	5	15	11	
A 23 2 DC - USE THE TERM COULOMB	19	0	18	20	0	16	18	
A 24 2 DC - USE THE TERM PROTON	12	0	13	11	9	15	13	
A 25 2 DC - USE THE TERM ELECTRON	57	0	56	57	87	44	59	
A 26 2 DC - USE THE TERM CURRENT	76	100	76	74	92	68	79	
A 27 2 DC - USE THE TERM VOLTAGE	73	100	73	72	65	76	76	
A 28 2 DC - DETERMINE HOW BATTERIES MUST BE CONNECTED TOGETHER FOR A SPECIFIC VOLTAGE AND/OR CURRENT	26	0	23	30	75	24	23	
A 29 3 RESISTORS/RESISTIVE CIRCUITS - WORK WITH	54	100	58	47	67	50	61	RESISTORS/RESISTIVE CIRCUIT
A 30 3 RESISTORS - INSPECT	62	100	69	51	75	53	72	
A 31 3 RESISTORS - CLEAN	54	100	60	43	42	41	64	
A 32 3 RESISTORS - ADJUST	61	100	67	52	50	57	69	
A 33 3 RESISTORS - MEASURE	63	100	69	52	58	53	72	
A 34 3 RESISTORS - USE OR REFER TO TEMPERATURE COEFFICIENTS OF	16	0	21	13	67	29	19	
A 35 3 RESISTORS - USE OR REFER TO SYMBOLS FOR CARBON	45	0	41	42	97	41	48	
A 36 3 RESISTORS - USE OR REFER TO SYMBOLS FOR FIXED WIRE	43	0	52	44	92	3	54	
A 37 3 RESISTORS - USE OR REFER TO SYMBOLS FOR SLIDE TAP	43	0	43	43	67	4	42	
A 38 3 RESISTORS - USE OR REFER TO SYMBOLS FOR RHEOSTATS	56	0	58	83	55	57		
A 39 3 RESISTORS - USE OR REFER TO SYMBOLS FOR POTENTIOMETERS	67	0	66	56	97	62	67	
A 40 3 RESISTORS - USE OR REFER TO SYMBOLS FOR FIXED FILM	31	0	29	26	92	29	48	

PCT. MEMRS RESP *YES*- 3Q3X3 DAFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB IX

		3	5	7	9	5	5	5	5	5	5
		A.I.L.	S.K.L.	S.K.L.	S.K.L.	S.K.L.	S.P.C.	S.P.C.	S.P.C.	S.P.C.	S.P.C.
	DY-TSK										
	A 41 3 RESISTORS - USE COLOR CODES WHICH INDICATE OHMIC VALUE OF RESISTANCE	64	100	69	56	92	56	56	56	56	72
	A 42 3 RESISTORS - USE COLOR CODES WHICH INDICATE TOLERANCE	61	100	65	54	92	50	50	50	50	68
	A 43 3 RESISTORS - USE COLOR CODES WHICH INDICATE FAILURE RATE	27	0	29	22	33	15	15	15	15	32
	A 44 3 RESISTORS - USE OR REFER TO SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	62	100	66	55	75	52	52	52	52	67
	A 45 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL RESISTANCE IN	54	0	56	51	83	41	41	41	41	59
	A 46 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL CURRENT IN	53	0	55	49	83	44	44	44	44	58
	A 47 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	52	0	54	49	83	35	35	35	35	59
	A 48 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO POWER DISSIPATION IN	39	0	39	40	75	24	24	24	24	42
	A 49 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL RESISTANCE IN	53	0	57	47	83	41	41	41	41	61
	A 50 3 RESISTIVE CIRCUITS - SERIES - USE OR REFER TO TOTAL CURRENT IN	51	0	55	45	83	38	38	38	38	59
	A 51 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	51	0	54	47	75	35	35	35	35	59
	A 52 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO INDIVIDUAL BRANCH CURRENTS IN	43	0	45	42	75	25	25	25	25	48
	A 53 3 RESISTIVE CIRCUITS - SERIES PARALLEL - USE OR REFER TO POWER DISSIPATION IN	37	0	39	34	75	21	21	21	21	43
	A 54 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO TOTAL RESISTANCE IN	55	0	58	51	75	44	44	44	44	62
	A 55 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO TOTAL CURRENT IN	53	0	56	47	75	44	44	44	44	59
	A 56 3 PARALLEL RESISTIVE CIRCUITS - USE OR REFER TO INDIVIDUAL VOLTAGE DROPS IN	50	0	52	47	75	32	32	32	32	56
	A 57 3 RESISTIVE PARALLEL CIRCUITS - USE OR REFER TO INDIVIDUAL BRANCH CURRENTS IN	45	0	45	46	75	29	29	29	29	49
	A 58 3 RESISTIVE PARALLEL CIRCUITS - USE OR REFER TO POWER DISSIPATION IN	35	0	36	34	67	24	24	24	24	40
	A 59 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE TOTAL RESISTANCE FOR	49	0	51	47	67	41	41	41	41	54
	A 60 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE TOTAL CURRENT FOR	47	0	48	45	67	41	41	41	41	49
	A 61 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	46	0	47	46	67	32	32	32	32	50
	A 62 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	41	0	41	42	67	29	29	29	29	43
	A 63 3 SERIES RESISTIVE, SERIES PARALLEL RESISTIVE, OR PARALLEL RESISTIVE CIRCUITS - CALCULATE POWER DISSIPATION FOR	33	0	31	35	58	24	24	24	24	34
	B 64 1 METERS/MULTIMETERS - USE TO MEASURE RESISTANCE	66	100	73	54	75	71	71	71	71	74
	B 65 1 METERS/MULTIMETERS - USE TO MEASURE VOLTAGE	68	100	75	57	75	74	74	74	74	76

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY	
PERCENT MEMBERS PERFORMING	
B	66 1 METERS/MULTIMETERS - USE TO MEASURE CURRENT
B	67 1 METERS/MULTIMETERS - USE TO MEASURE VOLTAGE
B	68 1 METERS/MULTIMETERS - USE TO MEASURE FREQUENCY
B	69 1 METERS/MULTIMETERS - USE TO MEASURE TEMPERATURE
B	70 1 METERS/MULTIMETERS - USE TO MEASURE PRESSURE
B	71 1 METERS/MULTIMETERS - USE TO MEASURE LENGTH
B	72 2 AC - USE OR REFER TO EFFECTIVE VOLTAGE
B	73 2 AC - USE OR REFER TO PEAK TO PEAK VOLTAGE
B	74 2 AC - USE OR REFER TO AVERAGE VOLTAGE
B	75 2 AC - USE OR REFER TO WAVE LENGTH
B	76 2 AC - USE OR REFER TO FREQUENCY
B	77 2 AC - USE OR REFER TO INSTANTANEOUS VALUE
B	78 2 AC - USE OR REFER TO PHASE RELATIONSHIP
B	79 3 INDUCTORS/INDUCTIVE REACTANCE - WORK WITH CIRCUITS CONTAINING INDUCTORS, OR CHOOSE APPROPRIATE INDUCTIVE REACTANCE - INSPECT
B	80 3 INDUCTORS/INDUCTIVE REACTANCE - CLEAN
B	81 3 INDUCTORS/INDUCTIVE REACTANCE - ADJUST
B	82 3 INDUCTORS/INDUCTIVE REACTANCE - MEASURE
B	83 3 INDUCTORS/INDUCTIVE REACTANCE - USE CR
B	84 3 INDUCTORS/INDUCTIVE REACTANCE - USE CR INDUCTION
B	85 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR
B	86 3 INDUCTANCE/INDUCTIVE REACTANCE - USE OR
B	87 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR LOSS IN INDUCTORS
B	88 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR HYSTERESIS LOSS IN INDUCTORS
B	89 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR CURRENT LOSS IN INDUCTORS
B	90 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE NUMBER OF TURNS OF THE COIL
B	91 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR GENERAL RULE THAT INDUCTANCE OF A COIL PROPORTIONAL TO THE PERMEABILITY OF THE CORE
B	92 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR GENERAL RULE THAT THE INDUCTANCE OF A COIL PROPORTIONAL TO ITS LENGTH
B	93 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR GENERAL RULE THAT THE INDUCTANCE OF A COIL PROPORTIONAL TO THE CROSS SECTIONAL AREA
B	94 3 INDUCTORS/INDUCTIVE REACTANCE - CALCULATE PARTICULAR INDUCTORS USING FORMULAS
B	95 3 INDUCTORS/INDUCTIVE REACTANCE - CALCULATE THE TOTAL INDUCTANCE IN SERIES
B	96 3 INDUCTORS/INDUCTIVE REACTANCE - CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL

PCT MBRS RESP "YES" - 303X3 DAFSC/CONUS/OS CRPS

PCT MRBS RESP *YES* - 303X3 CAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

UV-155K

DRAFT

PERCENT MEMBERS PERFORMING	Dy-TSK	Dy-TSK									
		ALL					O'S				
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
C 126 1 CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	23	0	21	27	50	15	5	5	5	5	5
C 127 1 CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	26	0	17	24	33	9	19				
C 128 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	30	0	28	34	50	29	29				
C 129 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	23	0	22	26	25	21	22				
C 130 1 CAPACITANCE - USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY	21	0	19	24	25	18	20				
C 131 1 CAPACITANCE - CALCULATE CAPACITIVE REACTANCE	16	0	14	20	33	15	14				
C 132 1 CAPACITANCE - WORK WITH VARIABLE CAPACITORS	55	0	58	50	58	53	59				
C 133 1 CAPACITANCE - WORK WITH TRIMMER CAPACITORS	96	0	45	47	58	41	46				
C 134 1 CAPACITANCE - WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	59	100	63	54	67	59	64				
C 135 1 CAPACITANCE - WORK WITH OTHER FIXED CAPACITORS	57	100	61	51	67	59	62				
C 136 2 TRANSFORMERS - WORK WITH	57	100	61	51	75	56	62	TRANSFORMERS			
C 137 2 TRANSFORMERS - INSPECT	59	0	64	52	83	59	66				
C 138 2 TRANSFORMERS - CLEAN	53	0	59	43	33	47	63				
C 139 2 TRANSFORMERS - ADJUST	42	0	44	41	17	38	44				
C 140 2 TRANSFORMERS - TROUBLESHOOT	53	0	55	50	42	50	56				
C 141 2 TRANSFORMERS - DISTINGUISH BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (M)	3	0	2	4	0	0	0				
C 142 2 TRANSFORMERS - USE THE SYMBOL FOR MUTUAL INDUCTANCE (M)	4	0	5	4	0	0	0				
C 143 2 TRANSFORMERS - REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH	12	0	13	10	6	12	13				
C 144 2 TRANSFORMERS - CALCULATE TURNS RATIOS USING CURRENT OR VOLTAGE RATIOS	16	0	14	20	17	12	14				
C 145 2 TRANSFORMERS - REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH	15	0	13	18	25	18	13				
C 146 2 TRANSFORMERS - CALCULATE IMPEDANCE INTERACTIONS FOR	5	0	4	7	8	0	4				
C 147 2 TRANSFORMERS - WORK WITH AUTOTRANSFORMERS	37	0	35	40	58	35	34				
C 148 2 TRANSFORMERS - WORK WITH POWER	59	100	63	54	67	62	63				
C 149 2 TRANSFORMERS - WORK WITH AUDIO	31	0	29	33	42	24	31				
C 150 2 TRANSFORMERS - WORK WITH RADIO FREQUENCY	49	0	51	47	75	56	51				
C 151 2 TRANSFORMERS - WORK WITH SATURABLE CORE	33	0	30	38	58	29	30				
C 152 2 TRANSFORMERS - CHECK FOR OPEN WINDOWS BY MEASURING RESISTANCE	55	0	60	47	42	53	62				
C 153 2 TRANSFORMERS - CHECK FOR SHORTED WINDINGS BY MEASURING RESISTANCE	53	0	58	46	33	57	59				
C 154 2 TRANSFORMERS - CHECK FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	48	0	51	44	37	44	52				
C 155 2 TRANSFORMERS - MEASURE RESISTANCE OF WINDINGS TO DETERMINE STEP-UP OR STEP-DOWN TURNS RATIO	27	0	27	26	25	26	27				
C 156 2 TRANSFORMERS - MEASURE OUTPUT VOLTAGE TO DETERMINE STEP-UP OR STEP-DOWN TURNS RATIO	37	0	18	31	42	35	39				

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**
**OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX**
DY-TSK

		ALL	3	5	7	9	5	5
		SKL	SKL	SKL	SKL	SKL	LS	LS
		SPC	SPC	SPC	SPC	SPC	SPC	SPC
		018	C19	C20	021	022	327	028
1	C 157 2 TRANSFORMERS - REFER TO BASIC SYMBOLS	60	100	65	52	83	59	67
1	C 158 2 TRANSFORMERS - REFER TO MULTIPLE SECONDARY-WINDINGS SYMBOLS	56	0	59	51	83	56	60
1	C 159 2 TRANSFORMERS - REFER TO MULTIPLE TAP SYMBOLS	56	0	60	50	75	59	61
1	C 160 2 TRANSFORMERS - REFER TO CENTER TAP SYMBOLS FOR	57	100	61	50	83	56	62
1	C 161 2 TRANSFORMERS - REFER TO AIR CORE SYMBOLS FOR	36	0	35	39	83	24	37
1	C 162 2 TRANSFORMERS - REFER TO IRON CORE SYMBOLS FOR	41	0	41	42	83	44	40
1	C 163 2 TRANSFORMERS - REFER TO VARIABLE TRANSFORMER SYMBOLS FOR	47	0	51	42	75	47	51
1	C 164 2 TRANSFORMERS - REFER TO A COMBINATION OF SYMBOLS FOR	48	100	48	48	83	44	49
1	C 165 2 TRANSFORMERS - DETERMINE PHASE RELATIONSHIPS BETWEEN	38	0	39	37	50	35	40
1	C 166 2 TRANSFORMERS - USING SCHEMATIC SYMBOLS	19	0	17	22	17	12	19
1	C 167 2 TRANSFORMERS - DETERMINE OR REFER TO THE TYPE OF CORE	27	0	25	29	33	15	27
1	C 168 2 TRANSFORMERS - USE OR REFER TO THE GENERAL RULE THAT THE TURNS RATIO IS EQUAL TO THE VOLTAGE RATIO	44	0	45	43	58	38	46
1	C 169 2 TRANSFORMERS - CALCULATE VOLTAGE RATIOS USING TURNS RATIOS	19	0	16	24	8	6	19
1	C 170 2 TRANSFORMERS - CALCULATE CURRENT RATIOS USING TURNS RATIOS	13	0	10	17	7	6	11
1	C 171 2 TRANSFORMERS - USE THREE PHASE	43	0	44	42	75	38	45
1	C 172 2 TRANSFORMERS - INSPECT THREE PHASE	38	0	39	37	83	38	39
1	C 173 2 TRANSFORMERS - CLEAN OR LUBRICATE THREE PHASE	29	0	30	27	33	26	31
1	C 174 2 TRANSFORMERS - ADJUST THREE PHASE	24	0	26	22	17	15	28
1	C 175 2 TRANSFORMERS - TROUBLESHOOT THREE PHASE	31	0	31	30	42	24	33
1	C 176 3 MAGNETISM - USE OR REFER TO PERMANENT MAGNETS	50	100	49	52	50	32	53 MAGNETISM
1	C 177 3 MAGNETISM - USE OR REFER TEMPORARY MAGNETS	25	0	24	27	8	12	27
1	C 178 3 MAGNETISM - USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS	9	0	7	14	0	3	7
1	C 179 3 MAGNETISM - USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS	9	0	6	13	0	0	6
1	C 180 3 MAGNETISM - USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS	11	0	7	18	0	0	7
1	C 181 3 MAGNETISM - USE OR REFER TO RESIDUAL MAGNETISM	17	0	15	22	0	6	16
1	C 182 3 MAGNETISM - USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX	27	0	26	29	17	15	29
1	C 183 3 MAGNETISM - USE OR REFER TO WEBER'S THEORY OF	3	0	3	5	0	3	2
1	C 184 3 MAGNETISM - USE OR REFER TO DOMAIN THEORY OF	5	0	3	7	0	3	2
1	C 185 3 MAGNETISM - USE OR REFER TO MAGNETIC INDUCTION	22	0	23	20	17	9	26
1	C 186 3 MAGNETISM - USE OR REFER TO FLUX DENSITY	21	0	21	22	17	15	22
1	C 187 3 MAGNETISM - USE OR REFER TO SATURABLE REACTANCE	20	0	16	21	31	12	16
1	D 188 1 RCL CIRCUITS - WORK WITH AC, LR, OR RCL CIRCUITS	50	100	52	47	57	44	54 RCL CIRCUITS
1	D 189 1 RCL CIRCUITS - USE OR REFER TO VECTORS WHEN WORKING WITH	16	0	16	16	17	15	16
1	D 190 1 RCL CIRCUITS - USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH	16	0	15	19	0	16	14
1	D 191 1 RCL CIRCUITS - USE OR REFER TO SINE WHEN WORKING WITH	25	0	27	21	33	26	27
1	D 192 1 RCL CIRCUITS - USE OR REFER TO COSINE WHEN WORKING WITH	25	0	27	21	33	26	27

PCT MARS RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

		D Y-TSK	OCCUPATIONAL ANALYSIS PROGRAM USAFOMC (ATC) RANDOLPH AFB IX					
			ALL	3	5	7	9	5
		SPC	SPC	SPC	SPC	SPC	SPC	SPC
	D 193 1 RCL CIRCUITS - USE OR REFER TO TANGENT WHEN WORKING WITH		21	0	24	17	33	24
	D 194 1 RCL CIRCUITS - USE OR REFER TO HANTS WHEN WORKING WITH		35	100	38	31	42	29
	D 195 1 RCL CIRCUITS - USE OR REFER TO TRUE POWER (PT) WHEN		21	0	22	20	17	15
	D 196 1 RCL CIRCUITS - USE OR REFER TO MAXIMUM POWER (PM) WHEN		26	0	28	22	25	24
	D 197 1 RCL CIRCUITS - USE OR REFER TO AVERAGE POWER (P AVE) WHEN		32	0	33	31	25	26
	D 198 1 RCL CIRCUITS - USE OR REFER TO APPARENT POWER (PA) WHEN		15	0	14	16	25	12
	D 199 1 RCL CIRCUITS - USE OR REFER TO POWER FACTOR (PF) WHEN		17	0	16	19	17	9
	D 200 1 RCL CIRCUITS - USE OR REFER TO RESONANT CIRCUITS WHEN		4C	0	41	39	33	35
	D 201 1 RCL CIRCUITS - USE OR REFER TO BANDWIDTH WHEN WORKING		42	100	43	41	17	38
	D 202 1 RCL CIRCUITS - USE OR REFER TO SELECTIVITY WHEN		34	0	34	35	17	26
	D 203 1 RCL CIRCUITS - USE OR REFER TO RESONANT FREQUENCY WHEN		41	100	41	41	25	38
	D 204 1 RCL CIRCUITS - USE OR REFER TO HALF POWER POINTS WHEN		36	0	37	35	33	41
	D 205 1 RCL CIRCUITS - USE OR REFER TO BANDPASS REGION WHEN		35	0	36	33	17	29
	D 206 1 RCL CIRCUITS - USE OR REFER TO CIRCUIT Q WHEN WORKING		22	0	22	22	0	21
	D 207 1 RCL CIRCUITS - USE OR REFER TO TANK CIRCUITS WHEN		39	0	41	36	25	36
	D 208 1 RCL CIRCUITS - DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS		25	0	26	25	33	26
	D 209 1 RCL CIRCUITS - DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR		12	0	12	13	0	6
	D 210 1 RCL CIRCUITS - DIAGRAMS FOR CIRCUITS		19	0	18	19	0	9
	D 210 1 RCL CIRCUITS - USE OR REFER TO TOTAL IMPEDANCE FOR		19	0	18	19	0	9
	D 211 1 RCL CIRCUITS - CAPACITIVE CIRCUITS		11	0	10	14	8	6
	D 211 1 RCL CIRCUITS - USE OR REFER TO PHASE ANGLES BETWEEN		11	0	12	13	0	13
	D 212 1 RCL CIRCUITS - IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS		20	0	20	21	8	12
	D 213 1 RCL CIRCUITS - USE OR REFER TO TOTAL IMPEDANCE FOR SERIES		9	0	9	11	0	3
	D 214 1 RCL CIRCUITS - FOR SERIES		12	0	11	14	8	9
	D 215 1 RCL CIRCUITS - USE OR REFER TO TRUE POWER (PT) FOR SERIES		14	0	13	15	25	6
	D 216 1 RCL CIRCUITS - USE OR REFER TO POWER FACTORS (PF) FOR		13	0	11	15	0	3
	D 217 1 RCL CIRCUITS - USE OR REFER TO TOTAL CURRENT FOR PARALLEL		24	0	25	22	18	26
	D 218 1 RCL CIRCUITS - USE OR REFER TO IMPEDANCE ANGLES FOR		7	0	7	8	3	7

PCT MBR'S RESP 'YES' - 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFCOMC (ATC) RANDOLPH AFB TX

Dy-TSK

		ALL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	US	0's
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
1	D 219 1 RCL CIRCUITS - USE THE ASSUMED VOLTAGE METHOD FOR DETERMINING TOTAL IMPEDANCE FOR PARALLEL IMPEDANCE FOR PARALLEL	10	0	11	8	8	3	13							
1	O 220 1 RCL CIRCUITS - USE OHM'S LAW FOR DETERMINING TOTAL IMPEDANCE FOR PARALLEL	28	0	31	24	25	29	31							
1	O 221 1 RCL CIRCUITS - CHECK CAPACITORS USING OHMMETERS	50	0	55	42	33	47	57							
1	O 222 1 RCL CIRCUITS - CHECK INDUCTORS USING OHMMETERS	37	0	40	32	17	26	43							
1	O 223 1 RCL CIRCUITS - CHECK INDUCTORS USING OHMMETERS	46	0	49	41	33	38	51							
1	O 224 1 RCL CIRCUITS - CHECK INDUCTORS USING SUBSTITUTION	31	0	33	27	17	26	35							
1	O 225 1 RCL CIRCUITS - CHECK RESISTORS USING OHMMETERS	53	0	59	44	67	62	62							
1	O 226 1 RCL CIRCUITS - CHECK RESISTORS USING SUBSTITUTION	31	0	34	26	25	24	37							
1	D 227 1 RCL CIRCUITS - USE OR REFER TO THE RULE THAT PHASE ANGLE (θ_{THETA}) = 0, POWER FACTOR (PF) = 1, AND APPARENT POWER (PAI) = TRUE POWER (PT) FOR RESONANT CIRCUITS	8	0	8	8	6	6	8							
1	D 228 1 RCL CIRCUITS - USE OR REFER TO RESONANT FREQUENCIES FOR POWER POINTS - USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY	33	0	31	36	33	24	32							
1	O 229 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY	28	0	28	28	17	24	28							
1	O 230 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL	22	0	21	24	8	18	21							
1	D 231 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7% OF THE PEAK CURRENT VALUE	37	0	40	33	58	35	41							
1	D 232 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO THE QUALITY OF THE TIME COIL (Q)	13	0	10	17	8	9	10							
1	D 233 1 RCL CIRCUIT - DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES	17	0	15	19	8	9	16							
1	D 234 2 TIME CONSTANTS - WORK WITH, USE, OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR (DISCHARGED) AFTER FIVE (5) TIME CONSTANTS - USE OR REFER TO UNIVERSAL CHARTS FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	32	100	31	32	42	21	33 TIME CONSTANTS							
1	D 235 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR (DISCHARGED) AFTER FIVE (5) TIME CONSTANTS - USE OR REFER TO UNIVERSAL CHARTS FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	23	0	23	42	12	25								
1	D 236 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR (DISCHARGED) AFTER FIVE (5) TIME CONSTANTS - USE OR REFER TO UNIVERSAL CHARTS FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	9	0	9	12	33	6	9							
1	D 237 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED OR (DISCHARGED) AFTER FIVE (5) TIME CONSTANTS - USE OR REFER TO UNIVERSAL CHARTS FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	13	0	10	17	8	9	10							
1	D 238 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR RC OR LR CIRCUITS	11	0	8	17	8	6	8							
1	D 239 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND COMPONENT VOLTAGES TO REACH SPECIFIC VALUES IN SPECIFIC TIMES	10	0	8	13	0	3	9							
1	D 240 2 TIME CONSTANTS - USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE	14	0	12	17	17	3	14							
1	O 241 3 FILTER CIRCUITS - WORK WITH	49	100	51	44	58	38	54 FILTERS							
1	O 242 3 FILTER CIRCUITS - INSPECT	47	0	51	40	67	35	54							

PCT MBR'S RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

**OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX**

	DY-TSK	ALL						5' S					
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
1	D 243 3 FILTER CIRCUITS - CLEAN	39	0	46	29	17	26	50	5	9	5	5	5' S
1	D 244 3 FILTER CIRCUITS - ALIGN OR ADJUST	34	0	36	30	17	26	39	34	36	32	32	46
1	D 245 3 FILTER CIRCUITS - TROUBLESHOOT TO COMPONENT PARTS OF	40	0	43	36	25	32	46	43	39	25	29	48
1	D 246 3 FILTER CIRCUITS - TROUBLESHOOT TO COMPONENT PARTS OF	43	0	45	39	25	32	47	44	40	42	50	42
1	D 247 3 FILTER CIRCUITS - WORK WITH LOW PASS FILTERS	44	0	45	42	30	32	47	43	40	44	41	50
1	D 248 3 FILTER CIRCUITS - WORK WITH HIGH PASS FILTERS	43	0	44	41	30	29	47	44	40	46	41	50
1	D 249 3 FILTER CIRCUITS - WORK WITH BANDPASS FILTERS	44	0	46	41	30	38	48	44	40	36	30	48
1	D 250 3 FILTER CIRCUITS - WORK WITH BAND-REJECT FILTERS	34	0	36	30	20	24	38	12	100	15	7	0
1	D 251 3 FILTER CIRCUITS - DON'T REMEMBER WHICH TYPE OF	12	0	100	15	7	0	6	39	0	38	40	50
1	D 252 3 FILTER CIRCUITS - WORK WITH L-SECTION	39	0	38	40	50	21	42	38	0	37	40	50
1	D 253 3 FILTER CIRCUITS - WORK WITH T-SECTION	38	0	33	40	50	24	39	36	0	33	42	50
1	D 254 3 FILTER CIRCUITS - WORK WITH PI-SECTION	36	0	33	42	50	26	34	36	0	30	37	45
1	D 255 3 FILTER CIRCUITS - WORK WITH YTTRIUM IRON GARNET (YIG) FILTERS	9	0	9	9	8	9	9	9	0	9	8	9
1	D 256 3 FILTER CIRCUITS - USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS	9	0	9	10	8	3	10	9	0	9	8	9
1	E 257 1 COUPLING DEVICES OR CIRCUITY - WORK WITH	52	0	54	48	58	41	57	52	0	53	49	59
1	E 258 1 COUPLING DEVICES CIRCUITY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY COMPONENTS ASSOCIATED WITH RC COUPLING	52	0	54	48	58	41	57	52	0	53	49	59
1	E 259 1 COUPLING DEVICES OR CIRCUITY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY AND COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING	49	0	51	47	58	29	55	49	0	50	47	58
1	E 260 1 COUPLING DEVICE OR CIRCUITY - IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	49	0	51	44	42	38	54	49	0	48	42	26
1	E 261 1 COUPLING DEVICES OR CIRCUITY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE RC COUPLING	49	0	51	44	42	38	54	49	0	49	44	42
1	E 262 1 COUPLING DEVICES OR CIRCUITY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM IMPEDANCE COUPLING	45	0	48	42	26	52	53	47	0	49	44	42
1	E 263 1 COUPLING DEVICES OR CIRCUITY - TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM TRANSFORMER COUPLING	47	0	49	44	42	35	52	47	0	48	47	50
1	E 264 1 COUPLING DEVICES OR CIRCUITY - WORK WITH DIRECT COUPLED CIRCUITS	47	0	48	47	50	35	51	47	0	46	51	55
1	E 265 1 COUPLING DEVICES OR CIRCUITY - WORK WITH CAPACITIVE-RESISTANCE COUPLED CIRCUITS	46	0	46	46	51	35	49	46	0	46	46	51
1	E 266 1 COUPLING DEVICES OR CIRCUITY - WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	47	0	43	45	51	24	45	47	0	43	45	51
1	E 267 1 COUPLING DEVICES OR CIRCUITY - WORK WITH TRANSFORMER COUPLED CIRCUITS	48	0	48	46	50	38	50	48	0	48	46	50
1	E 268 2 SOLDERING - PERFORM, INSPECT OR EVALUATE CONNECTIONS	62	10	65	57	67	58	65	62	59	0	67	58
1	E 269 2 SOLDERING - SOLDER CONNECTIONS	59	0	67	47	33	68	67	59	0	64	48	53
1	E 270 2 SOLDERING - DESOLDER CONNECTIONS	59	0	64	48	33	66	66	57	0	63	49	54
1	E 271 2 SOLDERING - PERFORM HIGH RELIABILITY CONNECTIONS	37	0	39	34	25	22	41	64	0	67	60	67
1	E 272 2 SOLDERING - INSPECT CONNECTIONS	64	0	67	60	92	66	67	64	0	65	48	33
1	E 273 2 SOLDERING - CLEAN OR TIN CONNECTIONS	58	0	65	48	33	62	66	58	0	65	48	33

**OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX**

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

	ALL	SKL	SKL	US	O's
	SPC	SPC	SPC	SPC	SPC
	D18	D19	D20	D21	D27
DY-TSK					
E 274 2 SOLDERING - MAKE HARDWARE CONNECTIONS	59	0	66	47	33
E 275 2 SOLDERING - MAKE PRINTED CIRCUIT BOARD CONNECTIONS	49	0	52	44	25
E 276 2 SOLDERING - SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS	59	0	65	48	33
E 277 2 SOLDERING - SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS	53	0	57	47	25
E 278 2 SOLDERING - PERFORM WIRE WRAPPING IN LIEU OF	19	0	21	17	8
E 279 2 SOLDERING - PERFORM CRIMPING IN LIEU OF	44	0	49	37	33
E 280 2 SOLDERING - PERFORM WIRE CONNECTIONS USING A 714 PUNCH-ON TOOL IN LIEU OF	5	0	5	4	0
E 281 3 RELAYS - WORK WITH	61	200	67	52	75
E 282 3 RELAYS - WORK WITH	33	0	37	27	25
E 283 3 RELAYS - CLEAN	50	0	57	38	33
E 284 3 RELAYS - INSPECT	57	0	63	47	75
E 285 3 RELAYS - TROUBLESHOOT	53	0	59	45	42
E 286 3 RELAYS - MONITOR BIAS OUTPUT	19	0	20	18	17
E 287 3 RELAYS - REMOVE OR REPLACE	56	0	63	46	25
E 288 3 RELAYS - PERFORM TASKS ON CONTACTS	43	0	49	34	33
E 289 3 RELAYS - PERFORM TASKS ON CORES	12	0	14	9	8
E 290 3 RELAYS - PERFORM TASKS ON COILS	20	0	22	17	17
E 291 3 RELAYS - PERFORM TASKS ARMATURES	24	0	28	17	21
E 292 3 RELAYS - PERFORM ON SPRINGS	28	0	33	18	25
E 293 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO)	52	0	56	47	75
E 294 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC)	51	0	55	45	75
E 295 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR SINGLE POLE, DOUBLE THROW (SPDT)	50	0	53	45	75
E 296 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR DOUBLE POLE,DOUBLE THROWN (DPDT)	49	0	53	44	75
E 297 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR OTHER RELAY SYMBOLS	50	0	52	47	75
E 298 3 RELAYS - CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	51	0	55	46	50
F 299 1 MICROPHONES - PERFORM TASKS DEALING WITH MICROPHONES OR OTHER SENSING DEVICES SUCH AS TRANSDUCERS					
F 300 1 MICROPHONES - INSPECT	16	0	14	17	33
F 301 1 MICROPHONES - CLEAN	11	0	10	13	8
F 302 1 MICROPHONES - OPERATE	23	0	25	21	8
F 303 1 MICROPHONES - TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT NOT DOWN TO PARTS	16	0	16	14	17
F 304 1 MICROPHONES - TROUBLESHOOT DOWN TO PARTS	6	0	6	7	6
F 305 1 MICROPHONES - REMOVE OR REPLACE PARTS	16	0	15	17	8
F 306 1 MICROPHONES - PERFORM TASKS ON CARBON	5	0	4	6	6
F 307 1 MICROPHONES - PERFORM TASKS ON CAPACITOR	13	0	13	8	21
F 308 1 MICROPHONES - PERFORM TASKS ON CRYSTAL	5	0	4	6	12
F 309 1 MICROPHONES - PERFORM TASKS ON CRYSTAL	6	0	4	6	6

TASK GROUP SUMMARY PUPIL MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY		PERCENT MEMBERS PERFORMING									
		ALL	SKL	SKL	SKL	SKL	SKL	SKL	SKL	US	5'
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
6	351	1	SEMICONDUCTOR DIODES - COMPUTE FORWARD OR REVERSE BIAS RESISTANCE	16	0	17	15	17	15	15	1.
6	352	1	SEMICONDUCTOR DIODES - USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT OPERATION OF	38	0	41	34	67	26	44	
6	353	1	SEMICONDUCTOR DIODES - IDENTIFY AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON THEIR PHYSICAL APPEARANCE	47	0	47	46	67	38	50	
G	354	1	SEMICONDUCTOR DIODES - REFER TO OR DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW	9	0	8	11	8	9	7	
G	355	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF MEASUREMENTS OF FORWARD BIAS RESISTANCE TO PERFORM JOB	41	0	39	43	58	29	41	
G	356	1	SEMICONDUCTOR DIODE - NEED AN UNDERSTANDING OF DIODE COLOR CODING TO PERFORM JOB	23	0	26	19	58	21	27	
G	357	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF DIODE NUMBERING SYSTEM TO PERFORM JOB	38	0	39	38	58	35	39	
G	358	1	SEMICONDUCTOR DIODE - NEED AN UNDERSTANDING OF MEASUREMENTS OF REVERSE BIAS RESISTANCE TO PERFORM JOB	40	0	39	41	58	29	42	
G	359	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL) TO PERFORM JOB	9	0	9	7	8	6	10	
G	360	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END TO PERFORM JOB	52	0	54	48	67	38	57	
G	361	1	SEMICONDUCTOR DIODE - NEED AN UNDERSTANDING OF CIRCUIT OF CURRENT FLOW THROUGH A DIODE TO PERFORM JOB	52	0	54	48	67	38	57	
G	362	1	SEMICONDUCTOR DIODE - NEED TO KNOW MATERIALS USED IN THE CONSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON	15	0	13	19	17	9	14	
G	363	1	SEMICONDUCTOR DIODES - NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF RESISTANCE	23	0	24	22	50	21	25	
G	364	1	SEMICONDUCTOR DIODES - USE OR REFER TO PN JUNCTION DIODE CHARACTERISTICS CURVES	9	0	8	10	0	3	9	
G	365	2	SEMICONDUCTOR DIODES - DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD BIASED OR REVERSE BIASED FROM CIRCUIT DIAGRAMS	38	0	36	42	50	29	38	
G	366	1	SEMICONDUCTOR DIODES - NEED UNDERSTANDING OF VALENCE BAND	10	0	10	9	17	6	11	
G	367	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF FORBIDDEN BAND	9	0	8	10	8	3	9	
G	368	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF CONDUCTION BAND	9	0	9	11	6	9	9	
G	369	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF COVALENT BONDING	9	0	9	9	8	6	9	
G	370	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF ELECTRON-HOLE PAIR CREATED	11	0	12	11	9	6	13	
G	371	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF ELECTRON-FLOW OR HOLE FLOW	18	0	17	21	25	12	18	
G	372	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF DONOR IMPURITY	9	0	0	11	9	3	10	
G	373	1	SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF ACCEPTOR	9	0	9	11	6	3	9	

PCT MBRS RESP "YES"- 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX

		ALL	3	5	7	9	5	5
		SKL	SKL	SKL	SKL	SKL	US	0's
		SPC	SPC	SPC	SPC	SPC	SPC	SPC
	0Y-TSK	018	019	020	021	022	027	028
{	6 374 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF P-TYPE MATERIAL	24	0	23	26	33	21	23
{	6 375 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF N-TYPE MATERIAL	24	C	23	26	33	21	23
{	6 376 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF MAJORITY CARRIERS	13	0	12	13	8	3	14
{	6 377 1 SEMICONDUCTORS DIODES - NEED AN UNDERSTANDING OF MINORITY CARRIERS	12	0	12	13	A	3	14
{	6 378 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF JUNCTION RECOMBINATION	9	0	8	11	8	3	9
{	6 379 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF DEPLETION REGION	13	0	12	14	A	9	13
{	6 380 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	13	0	13	13	8	12	13
{	6 381 1 SEMICONDUCTOR DIODES - USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO	49	0	48	50	67	32	52
{	6 382 1 SEMICONDUCTOR DIODES - USE OR REFER TO BARRIER HEIGHT	8	0	7	9	0	0	8
{	6 383 1 SEMICONDUCTOR DIODES - USE OR REFER TO DIODE SUBSTITUTION INFORMATION	36	C	33	41	58	24	35
{	C 384 1 SEMICONDUCTOR DIODES - USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT	26	0	24	29	26	15	26
{	G 385 1 SEMICONDUCTOR DIODES - USE OR REFER TO PEAK RECURRENT FORWARD CURRENT	19	0	17	22	25	12	19
{	6 386 1 SEMICONDUCTOR DIODES - USE OR REFER TO MAXIMUM SURGE CURRENT	22	0	19	27	33	15	21
{	6 387 1 SEMICONDUCTOR DIODES - USE OR REFER TO PEAK REVERSE INVERSE VOLTAGE	28	0	26	32	33	16	27
{	6 388 2 TRANSISTORS - WORK WITH	45	100	42	49	58	44	42 TRANSISTORS
{	6 389 2 TRANSISTORS - INSPECT	41	0	41	43	58	44	40
{	6 390 2 TRANSISTORS - CHECK	47	100	39	40	33	91	39
{	6 391 2 TRANSISTORS - NEED AN UNDERSTANDING OF Emitter - BASE	37	0	35	41	50	35	36
{	(EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	38	0	34	45	58	35	34
{	6 392 2 TRANSISTORS - USE OR REFER TO COLLECTOR - BASE (CB)	37	0	33	44	59	35	33
{	FORWARD AND REVERSE RESISTANCE MEASUREMENTS	37	0	33	44	59	35	33
{	6 393 2 TRANSISTORS - USE OR REFER TO Emitter - Collector (EC)	1A	-	17	19	17	17	18
{	RESISTANCE MEASUREMENTS	1A	0	17	17	17	17	12
{	6 394 2 TRANSISTORS - USE OR REFER HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE Emitter - Base JUNCTION	22	0	22	23	27	11	22
{	6 395 2 TRANSISTOR - USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - Base JUNCTION	15	0	12	20	17	12	17
{	G 396 2 TRANSISTOR - USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE, AND Emitter)	44	0	42	47	74	41	42
{	G 397 2 TRANSISTOR - USE OR REFER TO LEAKAGE CURRENT (I _{BO})	42	0	30	46	58	38	40
{	G 398 2 TRANSISTOR - USE OR REFER TO SCHEMATIC SYMBOLS	42	0	30	46	58	38	40
{	G 399 2 TRANSISTOR - USE OR REFER TO TRANSISTOR NOTATION SUCH AS Q1, A2, A3, ETC	38	0	34	43	50	41	33
{	G 400 2 TRANSISTOR - USE OR REFER TO SUBSTITUTION INFORMATION	38	0	34	43	50	41	33

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**
**OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX**

		ALL	SKL	7	9	5	5
		SPC	SPC	SPC	SPC	SPC	SPC
		018	Q19	G20	Q21	Q22	Q27
DY-TSK							
6 401 2 TRANSISTOR - USE OR REFER TO THE GENERAL RULE THAT THE BASE CURRENT IB IS NORMALLY SIGNIFICANTLY SMALLER THAN THE Emitter CURRENT		23	0	21	27	25	21
6 402 2 TRANSISTOR - USE THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR		28	0	26	31	42	26
6 403 2 TRANSISTOR - USE THE GENERAL RULE THAT LEAKAGE CURRENT (I_{CBO}) INCREASES AS TEMPERATURE INCREASES		17	0	15	20	17	14
6 404 2 TRANSISTOR - USE OR REFER TO CHARACTERISTIC CURVES OF		11	0	10	12	9	11
6 405 2 TRANSISTOR - USE OR REFER TO BETA		14	0	11	19	17	12
6 406 2 TRANSISTOR - USE OR REFER TO ALPHA		11	0	9	14	17	6
6 407 2 TRANSISTOR - USE OR REFER TO GAMMA		10	0	8	14	17	6
6 408 2 TRANSISTOR - USE OR REFER TO THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS BY DIVIDING THE BASE - Emitter VOLTAGE INTO THE BASE COLLECTOR VOLTAGE ($\Delta V = V_{CB}/V_{BE}$)		9	0	9	13	9	0
6 409 2 TRANSISTOR - USE OR REFER TO THE CURRENT GAIN FOR SPECIFIC TRANSISTORS BY DIVIDING THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR CURRENT ($\Delta I = \Delta C/I_B$)		9	0	7	13	8	3
6 410 2 TRANSISTORS - USE OR REFER TO THE POWER GAIN FOR SPECIFIC TRANSISTORS BY MULTIPLYING THE CURRENT GAIN TIMES THE VOLTAGE GAIN ($\Delta P = \Delta I \times \Delta V$)		9	0	6	13	8	3
6 411 2 TRANSISTORS - PERFORM MATCHING THROUGH THE USE OF CURVE TRACING		6	0	5	7	0	3
6 412 3 TRANSISTOR AMPLIFIERS - WORK WITH		35	100	32	40	58	26
6 413 3 TRANSISTOR AMPLIFIERS - INSPECT		33	0	30	37	58	26
6 414 3 TRANSISTOR AMPLIFIERS - ALIGN OP ADJUST		28	0	26	32	17	21
6 415 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT TO THE CIRCUIT LEVEL		33	0	31	37	25	32
6 416 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT TO COMPONENTS		32	0	31	34	25	32
6 417 3 TRANSISTOR AMPLIFIERS - REMOVE OR REPLACE COMPLETE AMPLIFIER		30	0	29	35	17	24
6 418 3 TRANSISTOR AMPLIFIERS - REMOVE OR REPLACE CIRCUIT COMPONENTS		31	0	29	33	17	24
6 419 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM CHANGE IN BASE CURRENT		16	0	15	17	17	6
6 420 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT		9	0	7	12	8	3
6 421 3 TRANSISTOR AMPLIFIERS - USE OP REFER TO THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT		16	0	15	18	17	6
6 422 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE CHANGE IN CURRENT WHICH RESULTS FROM AN INPUT SIGNAL		17	0	16	18	17	9
6 423 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL		8	0	7	9	8	3

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	Dy-Tsk	Percent Members Performing					Occupational Analysis Program USAFOPC (ATC) RANDOLPH AFB TX					
		All	SKL SPC	SKL SPC	SKL SPC	SKL SPC	US 0's	All	SKL SPC	SKL SPC	US 0's	ALL
(	G 424 3 TRANSISTOR AMPLIFIERS - USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (REQUIRES PLOTTING A LOAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE)	6	0	5	7	8	2	6	5	9	5	5
(	G 425 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR	15	0	13	17	0	12	13				
(	G 426 3 TRANSISTOR AMPLIFIERS - MEASURE VOLTAGE GAIN	24	0	24	25	25	24	24				
(	G 427 3 TRANSISTOR AMPLIFIERS - MEASURE CURRENT GAIN	17	0	17	17	17	12	18				
(	G 428 3 TRANSISTOR AMPLIFIERS - MEASURE POWER GAIN	18	0	17	19	17	12	19				
(	G 429 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS BY DIVIDING THE CHANGE IN BASE-EMITTER VOLTAGE INTO THE CHANGE OF THE BASE COLLECTOR VOLTAGE	10	0	8	14	8	C	10				
(	G 430 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH Emitter (SWAMPSTER) RESISTOR STABILIZATION	16	0	13	22	17	12	13				
(	G 431 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH SELF-BIAS STABILIZATION	18	0	16	22	17	9	17				
(	G 432 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH SELF-BIAS THERMISTOR STABILIZATION	16	0	15	17	17	12	16				
(	G 433 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION	16	0	13	20	8	12	10				
(	G 434 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION	16	0	17	20	8	12	14				
(	G 435 3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS, WHILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION	14	0	12	17	8	12	15				
(	G 436 3 TRANSISTOR AMPLIFIERS - IDENTIFY OR TROUBLESHOOT AMPLITUDE DISTORTION	21	0	19	23	42	16	20				
(	G 437 3 TRANSISTOR AMPLIFIERS - IDENTIFY FREQUENCY DISTORTION	18	0	19	17	33	18	19				
(	G 438 3 TRANSISTOR AMPLIFIERS - IDENTIFY PHASE DISTORTION	17	0	17	17	33	18	17				
(	G 439 3 TRANSISTOR AMPLIFIERS - NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING Emitter RESISTANCE	13	100	11	15	17	9	11				
(	G 440 3 TRANSISTOR AMPLIFIERS - DETERMINE THE CLASS OF OPERATION IN ORDER TO TROUBLESHOOT CIRCUITS	14	0	13	18	R	2	13				
(	G 441 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR PARAPHASE	17	0	15	22	6	18	14				
(	G 442 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR FUSH-PULL	27	0	27	29	25	21	27				
(	G 443 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	15	0	12	19	15	15	12				
(	G 444 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR: COMPOUNDED CONNECTED	16	0	12	21	25	14	17				
(	G 445 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	14	0	16	24	17	13	16				

PCT MBR'S RESP 'YES' - 303X3 DAFSC/COUNUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFCMC (ATC) RANDOLPH AFB TX

OY-TSK	ALL	3		5		7		9		5		5	
		SKL	SKL	SKL	SKL	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
H 472 2 POWER SUPPLIES - WORK WITH	60	100	67	49	67	76	65	POWER SUPPLIES					
H 473 2 POWER SUPPLIES - INSPECT	60	100	67	49	75	71	67						
H 474 2 POWER SUPPLIES - CLEAN	57	0	66	42	33	62	67						
H 475 2 POWER SUPPLIES - ALIGN OR ADJUST	60	100	63	47	25	71	67						
H 476 2 POWER SUPPLIES - TROUBLESHOOT TO CIRCUIT LEVEL	57	0	64	45	25	62	65						
H 477 2 POWER SUPPLIES - TROUBLESHOOT TO COMPONENTS	55	0	62	44	33	59	63						
H 478 2 POWER SUPPLIES - REMOVE OR REPLACE COMPLETE UNIT	58	0	65	44	25	71	64						
H 479 2 POWER SUPPLIES - REMOVE OR REPLACE COMPONENTS	55	0	62	44	25	59	63						
H 480 2 POWER SUPPLIES - INSPECT OR SERVICE COOLANT LEVELS	21	0	24	16	50	18							
H 481 2 POWER SUPPLIES - WORK WITH HALF-WAVE RECTIFIERS	53	0	56	48	67	47	59						
H 482 2 POWER SUPPLIES - RECTIFIERS - WORK WITH FULL WAVE OTHER THAN BRIDGE	54	0	56	50	75	53	57						
H 483 2 POWER SUPPLIES - RECTIFIERS - WORK WITH BRIDGE	57	0	62	48	67	59	63						
H 484 2 POWER SUPPLIES - RECTIFIERS - WORK WITH THREE PHASE	43	0	46	39	58	50	45						
H 485 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT	61	0	67	53	75	68	67						
H 486 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT	53	0	57	47	58	56	58						
H 487 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO PEAK OUTPUT	54	0	59	47	75	62	59						
H 488 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO AVERAGE	54	0	59	47	75	68	57						
H 489 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO RIPPLE	48	0	51	43	61	59	49						
H 490 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO RIPPLE	46	0	48	43	51	53	47						
H 491 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO PEAK	36	0	36	37	58	29	38						
H 492 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO SHAPE OF	53	0	58	44	58	56	59						
H 493 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO EFFECTIVE	49	0	51	43	75	53	51						
H 494 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	56	0	61	49	67	53	63						
H 495 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	52	0	55	48	67	51	56						
H 496 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	44	0	43	46	67	51	45						
H 497 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	42	0	47	42	67	51	44						
H 498 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	47	0	42	44	67	44	42						
H 499 2 POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH	42	0	42	42	67	38	42						
H 500 2 POWER SUPPLIES - FILTERS - HAVE THE OPTION OF REPLACING	4	0	4	7	6	9							
H 501 2 POWER SUPPLIES - WORK WITH REGULATOR CIRCUITS	36	0	39	50	67	53	61						

PCT MBR'S RESP 'YES' - 303X3 DAFSC/CONUS/OS GRPS

 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

 OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

	D-Y-TSK	ALL						5					
		SPC	SPC	SPC	SPC	SPC	SPC	SKL	SKL	SKL	US	O's	Q28
1	H 502 3 OSCILLATORS - WORK WITH	50	0	55	43	67	47	5	7	9	5	5	5
1	H 503 3 OSCILLATORS - INSPECT	47	0	52	39	67	47	50	42	42	50	52	52
1	H 504 3 OSCILLATORS - ALIGN OR ADJUST	47	0	50	42	47	47	38	25	25	47	51	51
1	H 505 3 OSCILLATORS - REMOVE OR REPLACE	46	0	50	42	47	47	41	38	25	47	51	51
1	H 506 3 OSCILLATORS - REMOVE OR REPLACE COMPONENTS	40	0	50	42	32	43	42	33	47	51	51	51
1	H 507 3 OSCILLATORS - TROUBLESHOOT TO CIRCUIT LEVEL	47	0	50	42	33	47	45	38	33	47	51	51
1	H 508 3 OSCILLATORS - TROUBLESHOOT TO COMPONENTS	42	0	45	38	33	47	49	39	58	44	51	51
1	H 509 3 OSCILLATORS - USE OR REFER TO FEEDBACK (DEGENERATIVE OR REGENERATIVE)	45	0	49	39	58	44	50	42	42	58	41	49
1	H 510 3 OSCILLATORS - USE OR REFER TO FREQUENCY DETERMINING DEVICES (FDD)	41	0	43	38	54	44	39	34	50	32	41	41
1	H 511 3 OSCILLATORS - USE OR REFER TO AMPLITUDE STABILITY	37	0	43	42	58	42	44	42	58	41	49	49
1	H 512 3 OSCILLATORS - USE OR REFER TO FREQUENCY STABILITY	43	0	26	26	42	15	26	26	42	42	15	26
1	H 513 3 OSCILLATORS - USE OR REFER TO PIEZOELECTRIC EFFECT (CRYSTAL OSCILLATIONS)	26	0	30	24	42	21	30	24	42	21	32	32
1	H 514 3 OSCILLATORS - USE OR REFER TO HARMONIC DISTORTION	28	0	32	30	58	18	32	30	58	18	26	26
1	H 515 3 OSCILLATORS - FREQUENCY DETERMINING DEVICES (FDD) - WORK WITH OSCILLATORS WHICH CONTAIN DC TANK CIRCUITS	32	0	33	30	58	18	32	30	58	18	26	26
1	H 516 3 OSCILLATORS - FREQUENCY DETERMINING DEVICES (FDD) - WORK WITH OSCILLATORS WHICH CONTAIN RC NETWORKS	42	0	44	41	67	29	42	40	44	67	29	47
1	H 517 3 OSCILLATORS - WORK WITH OSCILLATORS WHICH CONTAIN CRYSTALS	44	0	46	42	58	38	44	42	58	38	48	48
1	H 518 3 OSCILLATORS - WORK WITH OSCILLATORS WHICH CONTAIN PHASE LOCK LOOPS (PLL)	19	0	19	18	50	12	21	21	21	21	17	17
1	H 519 3 OSCILLATORS - FREQUENCY DETERMINING DEVICES (FDD) - WORK WITH OSCILLATORS BUT DON'T KNOW WHICH TYPE OF FDD IT CONTAINS	14	0	17	9	8	15	14	24	23	42	15	27
1	H 520 3 OSCILLATORS - SINUSOIDAL - WORK WITH SERIES HARTLEY	24	0	22	22	42	12	24	22	22	42	12	24
1	H 521 3 OSCILLATORS - SINUSOIDAL - WORK WITH SHUNT HARTLEY	22	0	17	21	50	6	21	17	21	50	6	21
1	H 522 3 OSCILLATORS - SINUSOIDAL - WORK WITH COLPITTS	19	0	11	13	33	0	11	13	33	0	14	14
1	H 523 3 OSCILLATORS - SINUSOIDAL - WORK WITH CLAPP	12	0	25	29	58	12	25	29	58	12	27	27
1	H 524 3 OSCILLATORS - SINUSOIDAL - WORK WITH VOLTAGE CONTROL	26	0	38	34	67	29	41	38	34	67	29	41
1	H 525 3 OSCILLATORS - SINUSOIDAL - WORK WITH CRYSTAL	36	0	22	27	58	15	23	22	27	58	15	24
1	H 526 3 OSCILLATORS - SINUSOIDAL - WORK WITH VOLTAGE CONTROL	23	0	11	14	33	0	11	14	33	0	14	14
1	H 527 3 OSCILLATORS - SINUSOIDAL - WORK WITH WIEN BRIDGE	12	0	24	13	25	24	12	24	13	25	21	24
1	H 528 2 OSCILLATORS - SINUSOIDAL - DON'T KNOW WHICH TYPE OF OSCILLATOR	20	0	45	47	62	38	45	45	47	62	38	49
1	H 529 3 OSCILLATORS - WORK WITH PULSE GENERATING CIRCUITS	45	0	46	42	67	38	45	45	46	67	35	49
1	H 530 3 OSCILLATORS - WORK WITH BLOCKING OSCILLATORS	45	0	46	42	67	35	45	45	46	67	35	49
1	H 531 3 OSCILLATORS - WORK WITH BURST GENERATORS	8	0	9	7	17	3	8	9	7	17	3	11
1	H 532 3 OSCILLATORS - WORK WITH BLOCKED OSCILLATORS	31	0	10	32	67	18	31	10	32	67	18	18
1	H 533 1 MULTIVIBRATORS - WORK WITH	48	0	49	47	67	47	48	49	47	67	47	49
1	I 534 1 MULTIVIBRATORS - INSPECT	44	0	46	41	67	47	44	46	41	67	47	47
1	I 535 1 MULTIVIBRATORS - ALIGN OR ADJUST	44	0	45	42	25	35	44	44	45	25	35	47
1	I 536 1 MULTIVIBRATORS - CALIBRATE	35	0	35	35	25	24	35	35	25	25	24	36

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

TASK GROUP SUMMARY									
PERCENT MEMBERS PERFORMING									
	1	2	3	4	5	6	7	8	9
DY-TASK									
I 537 1 MULTIVIBRATORS - TROUBLESHOOT TO CIRCUIT COMPONENTS	44	0	45	43	33	36	47		
I 538 1 MULTIVIBRATORS - TROUBLESHOOT TO CIRCUIT COMPONENTS	43	0	45	40	33	35	47		
I 539 1 MULTIVIBRATORS - REMOVE OR REPLACE COMPLETE CIRCUITS	41	0	42	40	25	38	43		
I 540 1 MULTIVIBRATORS - REMOVE OR REPLACE CIRCUIT COMPONENTS	41	0	43	38	25	35	45		
I 541 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK CIRCUITS	31	0	31	31	58	24	33		
I 542 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS (FDD)	37	0	35	41	58	32	36		
I 543 1 MULTIVIBRATORS - WORK WITH MULTIVIBRATORS WITH CRYSTAL FREQUENCY DETERMINING DEVICES (FDD)	32	0	31	33	58	38	30		
I 544 1 MULTIVIBRATORS - FREQUENCY DETERMINING DEVICES (FDD) - DON'T KNOW WHICH TYPE OF FDD WORKED WITH	17	0	21	11	25	12	22		
I 545 1 MULTIVIBRATORS - WORK WITH ASSTABLE (FREE RUNNING)	43	0	43	43	58	35	45		
I 546 1 MULTIVIBRATORS - WORK WITH MONOSTABLE (ONE SHOT)	45	0	44	46	67	38	46		
I 547 1 MULTIVIBRATORS - WORK WITH RISISTABLE (ELP FLIP)	43	0	43	43	67	38	44		
I 548 2 LIMITERS - CLAMPERS - WORK WITH SERIES DIODE LIMITERS	38	0	40	34	58	36	41	LIMITERS AND CLAMPERS	
I 549 2 LIMITERS - CLAMPERS - WORK WITH SHUNT DIODE LIMITERS	34	0	36	32	50	29	38		
I 550 2 LIMITERS - CLAMPERS - WORK WITH SHUNT DIODE LIMITERS	34	0	35	32	59	25	37		
I 551 2 LIMITERS - CLAMPERS - WORK WITH LIMITERS WITH BIAS	30	0	31	28	42	21	33		
I 552 2 LIMITERS - CLAMPERS - WORK WITH ZENER DIODE LIMITERS	35	0	38	35	50	24	41		
I 553 2 LIMITERS - CLAMPERS - WORK WITH TRANSISTOR LIMITERS	24	0	22	25	50	24	23		
I 554 2 LIMITERS - CLAMPERS - WORK WITH TRIODE LIMITERS	21	0	21	33	16	21	21		
I 555 2 LIMITERS - CLAMPERS - WORK WITH BASIC DIODE CLAMPING CIRCUITS	34	0	35	32	58	29	37		
I 556 2 LIMITERS - CLAMPERS - WORK WITH BIAS DIODE CLAMPING CIRCUITS	26	0	26	27	50	21	27		
I 557 2 LIMITERS - CLAMPERS - WORK WITH DC RESTORERS (DCRA)	19	0	18	22	50	9	20	ELECTRON TUBES	
I 558 3 ELECTRON TUBES - WORK ON EQUIPMENT WHICH CONTAINS BASIC ELECTRON TUBES	46	0	50	40	67	44	51		
I 559 3 ELECTRON TUBES - CHECK CONDITION	46	0	51	38	50	41	53		
I 560 3 ELECTRON TUBES - USE TUBE TESTERS TO CHECK	45	0	51	35	50	44	52		
I 561 3 ELECTRON TUBES - USE MULTIMETERS TO CHECK	36	0	49	29	33	26	42		
I 562 3 ELECTRON TUBES - USE SCOPES TO CHECK	40	0	43	34	33	44	42		
I 563 3 ELECTRON TUBES - USE SUBSTITUTION TO CHECK	42	0	46	38	50	44	46		
I 564 3 ELECTRON TUBES - USE OR REFER TO CUTOFF	36	0	39	31	50	29	41		
I 565 3 ELECTRON TUBES - USE OR REFER TO PEAK INVERSE VOLTAGE RATING	19	0	21	16	25	12	22		
I 566 3 ELECTRON TUBES - USE OR REFER TO PEAK CURRENT RATING	20	0	23	16	25	16	23		
I 567 3 ELECTRON TUBES - USE OR REFER TO TRANSIT TIME	16	0	18	14	10	9	19		
I 568 3 ELECTRON TUBES - USE OR REFER TO PLATE DISSIPATION	13	0	15	9	17	12	15		
I 569 3 ELECTRON TUBES - USE OR REFER TO SATURATION	38	0	42	32	50	38	42		
I 570 3 ELECTRON TUBES - USE OR REFER TO DC PLATE RESISTANCE	25	0	27	22	24	27			
I 571 3 ELECTRON TUBES - USE OR REFER TO PLATE VOLTAGE	44	0	48	38	67	44	49		
I 572 3 ELECTRON TUBES - USE OR REFER TO PLATE CURRENT	40	0	44	33	43	44	43		
I 573 3 ELECTRON TUBES - USE OR REFER TO GRID VOLTAGE	43	0	47	33	57	47	47		
I 574 3 ELECTRON TUBES - USE OR REFER TO GRID CURRENT	37	0	41	30	58	41	41		

PCT MBR'S RESP 'YES' - 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

DY-TSK

		ALL	SPC 019	SPC 020	SPC 021	SPC 022	SPC 027	SPC 028	SPC 0's
	DY-TSK	3	5	7	9	5	5	5	5
I	575 3 ELECTRON TUBES - USE OR REFER TO CATHODE VOLTAGE	42	0	46	37	67	44	46	
I	576 3 ELECTRON TUBES - USE OR REFER TO CATHODE CURRENT	36	0	47	31	58	41	39	
I	577 3 ELECTRON TUBES - USE OR REFER TO FILAMENT VOLTAGE	47	0	51	40	67	44	52	
I	578 3 ELECTRON TUBES - USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR	19	0	19	19	8	12	20	
I	579 3 ELECTRON TUBES - USE OR REFER TO MULTIGRID (TETRODE, PENTODE, ETC.) AMPLIFICATION FACTORS	17	0	18	16	0	12	19	
I	580 3 ELECTRON TUBES - USE OR REFER TO TRANSCONDUCTANCE	8	0	7	10	0	3	7	
I	581 3 ELECTRON TUBES - USE OR REFER TO THE PARAMETER CALLED AC PLATE RESISTANCE	10	0	10	9	0	0	12	
I	582 3 ELECTRON TUBES - USE OR REFER TO INTERELECTRODE CAPACITANCE	17	0	16	17	0	9	17	
I	583 3 ELECTRON TUBES - USE OR REFER TO CHARACTERISTIC CURVES	10	0	12	8	0	3	14	
I	584 3 ELECTRON TUBES - USE OR REFER TO PLATE VOLTAGE FOR A SPECIFIED BIAS	28	0	31	25	8	24	32	
I	585 3 ELECTRON TUBES - USE OR REFER TO PLATE CURRENT FOR A SPECIFIED BIAS	26	0	28	23	8	18	29	
I	586 3 ELECTRON TUBES - USE OR REFER TO BIAS REQUIRED FOR CUTOFF SATURATION	34	0	37	28	42	35	38	
I	587 3 ELECTRON TUBES - USE OR REFER TO BIAS REQUIRED FOR AMPLIFIER GAIN	32	0	37	25	42	38	36	
I	588 3 ELECTRON TUBES - USE OR REFER TO TO GAIN	35	0	38	30	50	38	38	
I	589 3 ELECTRON TUBES - USE OR REFER TO EFFICIENCY	23	0	27	17	8	21	28	
I	590 3 ELECTRON TUBES - USE MULTIMETERS TO DETERMINE TUBE	29	0	31	27	42	24	32	
I	591 3 ELECTRON TUBES - USE OSCILLOSCOPES TO DETERMINE TUBE AMPLIFIER GAIN	35	0	37	32	42	29	38	
I	592 3 ELECTRON TUBES - USE CHARACTERISTICS CURVES TO DETERMINE TUBE AMPLIFIER GAIN	11	0	12	10	8	6	13	
I	593 3 ELECTRON TUBES - USE OR REFER TO TUBE SOCKET NOTATION	43	0	45	40	58	41	46	
I	594 3 ELECTRON TUBES - USE OR REFER TO PIN NUMBERING SYSTEMS	46	0	49	40	58	44	50	
I	595 3 ELECTRON TUBES - USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	42	0	46	35	58	35	48	
I	596 3 ELECTRON TUBES - USE OR REFER TO ELECTRON TUBE DIODES	19	0	41	36	67	38	41	
I	J 597 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - WORK WITH CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT CIRCUITS	43	0	45	41	42	32	47	ELECTRON TUBE AMPLIFIERS AND CIRCUITS
I	J 599 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR OR REPAIR PARAPHASE AMPLIFIERS	22	0	21	24	17	15	22	
I	J 600 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	32	0	32	32	25	18	35	
I	J 601 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	22	0	21	22	33	9	24	
I	J 602 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS	23	0	19	28	25	12	21	
I	J 603 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - DON'T KNOW WHICH TYPE OF AMPLIFIER WORKED ON	15	0	19	8	8	18	19	

TASK GROUP SUMMARY PERCENT MEMBERS PREDICTING

DATA SHEET - ELECTRON TUBES							
ITEM	REF ID	DESCRIPTION	SKL	SKL	SKL	SKL	SKL
			ALL	SKL	SKL	US	2
			SPC	SPC	SPC	SPC	SPC
			018	019	020	021	022
			01's	02's	027	028	
	DY-TSK						
J 604	2	SPECIAL PURPOSE ELECTRON TUBES - WORK WITH GAS TUBES (HOT CATHODE OR COLD CATHODE)	46	0	49	41	67
J 605	2	SPECIAL PURPOSE ELECTRON TUBES - WORK WITH CATHODE-RAY TUBES (CRTS)	64	100	67	57	75
J 606	2	SPECIAL PURPOSE ELECTRON TUBES - WORK WITH BEAM POWER TUBES	21	0	19	22	58
J 607	2	SPECIAL PURPOSE ELECTRON TUBES - WORK WITH THYRATRONS	50	100	54	44	75
J 608	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTRON GUNS	42	0	44	39	33
J 609	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS	50	0	54	45	42
J 610	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS	47	0	50	42	33
J 611	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PHOSPHOR SCREENS	36	0	37	35	33
J 612	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO AQUADAG COATINGS	39	0	37	41	33
J 613	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO ELECTRON OPTICS	18	0	17	15	8
J 614	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PERSISTENCE	37	0	36	39	42
J 615	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO DECAY TIMES	23	0	21	26	17
J 616	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO FLUORESCENCE	28	0	28	27	25
J 617	2	SPECIAL PURPOSE ELECTRON TUBES - (CRT) - USE OR REFER TO PHOSPHORESCENCE	32	0	32	32	33
J 618	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - WORK ON TRANSMIT OR RECEIVE SYSTEMS	54	100	55	51	42
J 619	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON FREQUENCY CONVERTERS	39	0	38	40	42
J 620	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON FREQUENCY MIXERS	49	0	50	48	42
J 621	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON MODEMS	14	0	14	14	13
J 622	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - USE OR REFER TO THE HETERODYNING OF SIGNALS IN WORK WITH TRANSMIT OR RECEIVE SYSTEMS	36	0	39	32	32
J 623	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON REACTANCE MODULATORS	47	0	46	19	33
J 624	3	HETERODYNING AND MODULATION-DEMODULATION (MODEMS) - PERFORM TASKS ON MODULATED OSCILLATORS	32	0	35	32	2
K 625	1	AM TRANSMIT OR RECEIVE SYSTEMS - WORK ON AM SYSTEMS	10	0	7	16	6
K 626	1	AM TRANSMIT OR RECEIVE SYSTEMS - INSPECT AM SYSTEMS	9	0	6	15	6
K 627	1	AM TRANSMIT OR RECEIVE SYSTEMS - CLEAN AM SYSTEMS	9	0	6	14	7

PCT MRBS RESP *YES*- 3Q3X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOCCUPATIONAL ANALYSIS PROGRAM
USAFOPC (ATC) RANDOLPH AFB TX

	DY-TSK	ALL SPL 018	SPL SPL C19	SPL SPC C20	SPL SPC 021	SPL SPC 022	SPL SPC 027	SPL SPC 028	SPL SPC 035	SPL SPC 036	SPL SPC 037	SPL SPC 038
(	K 628 1 AM TRANSMIT OR RECEIVE SYSTEMS - ALIGN OR ADJUST K 629 1 AM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TC SYSTEM	9	0	6	14	0	6	7	0	6	7	0
(	K 630 1 AM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TO COMPONENTS	9	0	6	14	0	6	7	0	6	6	7
(	K 631 1 AM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OR REPLACE SYSTEMS	9	0	7	13	0	6	7	0	6	7	0
(	K 632 1 AM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OR REPLACE COMPONENTS	9	0	7	13	0	6	8	0	6	8	0
(	K 633 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS RF OSCILLATORS/SYNTHESIZERS	10	0	7	17	17	3	8	0	7	8	0
(	K 634 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS CM, RF AMPLIFIERS	11	0	8	17	17	6	9	0	8	9	0
(	K 635 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON AUDIO AMPLIFIERS	7	0	4	12	17	0	5	0	4	5	0
(	K 636 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS	9	0	6	16	17	3	6	0	6	6	0
(	K 637 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON LOCAL OSCILLATORS	11	0	9	15	17	6	10	0	9	10	0
(	K 638 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS	11	0	9	16	17	6	10	0	9	10	0
(	K 639 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS CM DETECTORS	11	0	8	17	17	6	9	0	8	9	0
(	K 640 1 AM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS CM, MIXER AMPLIFIERS	10	0	9	15	17	6	9	0	9	9	0
(	K 641 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS	6	0	4	9	25	3	4	0	4	3	0
(	K 642 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	7	0	5	11	25	3	6	0	5	3	0
(	K 643 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO SENSITIVITY OF RECEIVERS	11	0	9	16	25	6	10	0	9	10	0
(	K 644 1 AM TRANSMIT OR RECEIVE SYSTEMS - USE OR REFER TO SELECTIVITY OF RECEIVERS	8	0	5	13	17	3	6	0	5	6	0
(	K 645 2 FM TRANSMIT OR RECEIVE SYSTEMS - WORK WITH SYSTEMS - INSPECT	12	100	13	9	17	9	14	0	7	9	14
(	K 646 2 FM TRANSMIT OR RECEIVE SYSTEMS - CLEAN	10	0	12	7	25	6	14	0	7	6	14
(	K 647 2 FM TRANSMIT OR RECEIVE SYSTEMS - ALIGN	10	0	12	6	0	6	14	0	6	6	14
(	K 648 2 FM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TC SYSTEM	10	0	13	6	0	9	14	0	6	9	14
(	K 649 2 FM TRANSMIT OR RECEIVE SYSTEMS - TROUBLESHOOT TC SYSTEM COMPONENTS	10	0	13	6	0	9	14	0	6	9	14
(	K 650 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OR REPLACE SYSTEM COMPONENTS	10	0	12	7	0	6	13	0	7	6	13
(	K 651 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OR REPLACE SYSTEM COMPONENTS	10	0	12	7	0	6	14	0	7	6	14
(	K 652 2 FM TRANSMIT OR RECEIVE SYSTEMS - REMOVE OR REPLACE ASSESSMENTS	10	0	12	7	0	9	13	0	7	9	13
(	K 653 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM LINK PERFORMANCE ASSESSMENTS	6	0	7	5	8	9	6	0	7	6	6
(	K 654 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS CM, AUDIO AMPLIFIERS	7	0	4	7	6	3	0	0	4	3	0
(	K 655 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS CM FREQUENCY MULTIPLIERS	9	0	10	7	8	6	11	0	7	6	11

PCT MRBS RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING						ALL	3	5	7	9	5	5	
				SKL	SKL	SKL	SPC	SPC	SPC				SPC	SPC	SPC	SPC	
			DY-TSK				018	019	020	021	022	027	028				
	K 656	2	FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	10	0	12	7	8	9	13							
	K 657	2	FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS	10	0	12	7	8	6	14							
	K 658	2	FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS	11	0	12	8	8	5	13							
	K 659	2	TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON FREQUENCY CONVERTERS	10	0	11	7	8	3	13							
	K 660	2	FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS	10	0	12	7	8	6	13							
	K 661	2	FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON LIMITERS	9	0	11	7	8	3	13							
	K 662	2	FM TRANSMIT OR RECEIVER SYSTEMS - PERFORM TASKS ON FREQUENCY DISCRIMINATORS	10	0	12	7	8	5	13							
	K 663	2	FM TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	12	0	14	9	25	9	15							
	K 664	2	FM TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	11	0	14	7	25	5	15							
	K 665	2	TRANSMIT OR RECEIVE SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSCEIVERS	9	0	11	5	25	3	13							
	K 666	2	FM TRANSMIT OR RECEIVE SYSTEMS - PLOT RECEIVE SIGNAL LEVEL CURVES (RSLS)	5	0	5	4	8	C	6							
	K 667	3	NUMBERING SYSTEMS - CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	21	0	17	27	8	18	17							
	K 668	3	NUMBERING SYSTEMS - CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	28	0	24	35	25	29	24							
	K 669	3	NUMBERING SYSTEMS - CONVERT DECIMAL NUMBERS HEXADECIMAL (BASE 16) NUMBERS	7	0	7	7	8	C	8							
	K 670	3	NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	20	0	15	27	8	12	16							
	K 671	3	NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO BINARY NUMBERS	20	0	16	27	8	21	16							
	K 672	3	NUMBERING SYSTEMS - CONVERT OCTAL NUMBERS TO HEXADEMICAL NUMBERS	6	C	6	6	8	0	7							
	K 673	3	NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	28	0	24	34	25	29	23							
	K 674	3	NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO OCTAL NUMBERS	20	0	16	25	8	19	17							
	K 675	3	NUMBERING SYSTEMS - CONVERT BINARY NUMBERS TO HEXADEMICAL NUMBERS	5	C	7	8	C	6								
	K 676	3	NUMBERING SYSTEMS - CONVERT HEXADEMICAL NUMBERS TO DECIMAL NUMBERS	6	0	5	8	B	C	6							
	K 677	3	NUMBERING SYSTEMS - CONVERT HEXADEMICAL NUMBERS TO OCTAL NUMBERS	5	C	5	7	8	C	6							
	K 678	3	NUMBERING SYSTEMS - CONVERT HEXADEMICAL NUMBERS TO BINARY, NUMBERS	5	C	5	7	8	C	6							
	K 679	3	NUMBERING SYSTEMS - ADD BINARY NUMBERS	22	J	18	28	25	15	19							

PCT MRNS RESP 'YES'- 303X3 DAFSC/COMUSOS GRPS
TASK GROUP SUMMARY
PRESENT MEMBERS ATTENDING

TASK GROUP PERCENT MEMBERS PERFORMING	SUMMARY	PCT MBR RESP *YES*- 303X3 DAFSC/COMUS/OS GRPS									
		DY-TASK					S-5				
		ALL	SKL	SKL	ALL	SKL	SKL	ALL	SKL	SKL	
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	O's
		018	019	C20	Q21	Q22	Q27	C28			
K 680 3 NUMBERING SYSTEMS - SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD	THE END-AROUND-CARRY METHOD	16	0	14	21	17	9	15			
K 681 3 NUMBERING SYSTEMS - SUBTRACT OCTAL NUMBERS USING THE DIRECT SUBTRACTION METHOD	DIRECT SUBTRACTION METHOD	19	0	16	23	17	12	17			
K 682 3 NUMBERING SYSTEMS - ADD OCTAL NUMBERS		13	0	12	16	8	3	14			
K 683 3 NUMBERING SYSTEMS - ADD HEXADEMIC NUMBERS		5	0	5	6	8	0	6			
K 684 3 NUMBERING SYSTEMS - SUBTRACT HEXADEMIC NUMBERS		5	0	5	6	8	0	6			
K 685 3 NUMBERING SYSTEMS - DIVIDE BINARY NUMBERS		9	0	8	12	17	0	10			
K 686 3 NUMBERING SYSTEMS - MULTIPLY BINARY NUMBERS		11	0	9	14	17	3	11			
K 687 3 NUMBERING SYSTEMS - USE OR REFER TO BINARY CODEC DECIMAL (BCD)		26	0	22	33	25	26	21			
K 688 3 NUMBERING SYSTEMS - USE OR REFER TO GRAY CODE		15	0	11	22	12	11				
K 689 3 NUMBERING SYSTEMS - USE OR REFER TO ICAO CODE		1	0	1	0	17	0	1			
K 690 3 NUMBERING SYSTEMS - USE OR REFER TO EXCESS-3 CODE		2	0	3	1	0	1	3			
L 691 1 LOGIC FUNCTIONS - PERFORM TASKS RELATING TO LOGIC FUNCTIONS		28	0	28	33	29	28	LOGIC FUNCTIONS			
L 692 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES		19	0	14	21	25	15	20			
L 693 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR (OR) LOGIC SYMBOLS OR GATES		19	0	19	20	25	15	19			
L 694 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR (AND) OR LOGIC FUNCTIONS WITH STATE INDICATORS		19	0	18	20	25	15	19			
L 695 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR EXCLUSIVE (OR) LOGIC SYMBOLS OR GATES		19	0	18	20	25	15	20			
L 696 1 LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (AND) LOGIC FUNCTIONS		23	0	22	26	33	18	24			
L 697 1 LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (OR) LOGIC FUNCTIONS		23	0	22	26	33	18	24			
L 698 1 LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (AND) OR (OR) LOGIC SYMBOLS WITH STATE INDICATORS		23	0	22	26	33	18	23			
L 699 1 LOGIC FUNCTIONS - USE OR REFER TO TRUTH TABLES FOR (EXCLUSIVE OR) LOGIC SYMBOLS		23	0	22	26	33	18	24			
L 700 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (AND) GATES		28	0	27	29	33	26	27			
L 701 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (OR) GATES		27	0	27	28	31	26	27			
L 702 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (NAND) OR (NOR) GATES		28	0	27	30	33	26	27			
L 703 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR (EXCLUSIVE OR) GATES		27	0	26	27	33	26	27			
L 704 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR INHIBITED (AND) GATES		25	0	24	27	33	24	24			
L 705 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR "B" BARS		5	0	4	6	8	3	4			
L 706 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR COMBINERS		5	0	4	6	8	3	4			
L 707 1 LOGIC FUNCTIONS - USE OR REFER TO LOGIC SYMBOLS FOR		7	0	5	9	8	6	5			

**OCCUPATIONAL ANALYSIS PROGRAM
USAFCOMC (ATC), RANDOLPH AFB IX**

TEST GROUP, JOURNAL PERCENT MEMBERS PERFORMING	DY-TSK	0's					
		ALL	SKL	SKL	US	SPC	SPC
L 700 1 LOGIC FUNCTIONS - USE OR REFER TO FLIP-FLOP MULTI-VIBRATOR SYMBOLS	27	0	26	30	33	21	27
L 709 1 LOGIC FUNCTIONS - USE OR REFER TO ONE-SHOT MULTI-VIBRATOR SYMBOLS	27	0	26	30	33	21	27
L 710 1 LOGIC FUNCTIONS - USE OR REFER TO FLIP-FLOP CIRCUIT OR SCHEMATIC DIAGRAMS	28	0	26	30	33	21	27
L 711 1 LOGIC FUNCTIONS - USE OR REFER TO ONE-SHOT CIRCUIT OR SCHEMATIC DIAGRAMS	26	0	23	30	33	16	25
L 712 1 LOGIC FUNCTIONS - USE OR REFER TO FLIP-FLOP TRUTH TABLES	21	0	18	26	33	12	20
L 713 1 LOGIC FUNCTIONS - USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	21	0	19	25	33	18	20
L 714 1 LOGIC FUNCTIONS - USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS	20	0	16	23	33	18	19
L 715 1 LOGIC FUNCTIONS - USE OR REFER TO NONCOMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	20	0	18	22	33	18	19
L 716 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR "B" BARS	1	0	2	1	6	0	2
L 717 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR "M" BARS	1	0	2	1	8	0	2
L 718 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR COMBINERS	3	0	3	4	9	3	2
L 719 1 LOGIC FUNCTIONS - MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS	22	0	23	20	25	24	24
L 720 1 LOGIC FUNCTIONS - TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	21	0	19	22	33	21	20
L 721 1 LOGIC FUNCTIONS - TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	20	0	18	22	33	21	19
L 722 1 LOGIC FUNCTIONS - TRACE DATA FLOW THROUGH NONCOMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	20	0	18	22	33	21	19
L 723 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS	14	0	14	14	33	15	14
L 724 2 BOOLEAN EQUATIONS - PERFORM TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS	11	0	10	13	17	9	11
L 725 2 BOOLEAN EQUATIONS - DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS	7	0	6	6	8	9	5
L 726 1 BOOLEAN EQUATIONS - CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	4	0	4	4	8	3	4
L 727 2 BOOLEAN EQUATIONS - DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS	5	0	4	6	8	3	4
L 728 2 BOOLEAN EQUATIONS - MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	17	0	12	13	21	12	12
L 729 2 BOOLEAN EQUATIONS - DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS	7	0	7	7	8	9	6
L 730 2 BOOLEAN EQUATIONS - ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA	7	0	7	6	9	9	6
L 731 2 BOOLEAN EQUATIONS - USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES	8	0	8	8	11	12	7
L 732 2 BOOLEAN EQUATIONS - USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	4	0	3	5	8	3	3
L 733 2 BOOLEAN EQUATIONS - USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	11	0	11	13	17	12	11

PCT MEMS RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFOOMC (ATC), RANDOLPH AFB TX

	DY-TSK	PERCENT MEMBERS PERFORMING						PERCENT MEMBERS PERFORMING						PERCENT MEMBERS PERFORMING					
		ALL SPC 018	SKL SPC C19	SKL SPC C20	LS SPC 021	O's SPC 027	ALL SPC 018	SKL SPC C19	SKL SPC C20	LS SPC 021	O's SPC 027	ALL SPC 018	SKL SPC C19	SKL SPC C20	LS SPC 021	O's SPC 027			
L 734	2 BOOLEAN EQUATIONS - COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS	8	0	7	9	8	9	5	7	9	5	5	5	7	9	5	5		
L 735	2 BOOLEAN EQUATIONS - TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS	8	0	7	9	8	9	7	5	7	9	5	5	7	9	5	5		
L 736	3 COUNTERS - WORK WITH DIGITAL COUNTERS	29	0	28	30	17	26	29	0	27	30	17	26	29	COUNTERS	0	27		
L 737	3 COUNTERS - USE OR REFER TO UP-COUNTERS	28	0	27	30	17	24	27	0	25	29	17	24	28	COUNTERS	0	27		
L 738	3 COUNTERS - USE OR REFER TO DOWN-COUNTERS	27	0	25	29	17	24	26	0	24	28	17	21	25	COUNTERS	0	27		
L 739	3 COUNTERS - USE OR REFER TO SERIAL COUNTERS	26	0	24	28	17	21	22	0	19	27	17	21	20	COUNTERS	0	27		
L 740	3 COUNTERS - USE OR REFER TO PARALLEL COUNTERS	22	0	19	27	17	21	21	0	17	21	17	21	20	COUNTERS	0	27		
L 741	3 COUNTERS - USE OR REFER TO RING COUNTERS	9	0	7	12	17	3	8	0	7	12	17	3	8	COUNTERS	0	27		
L 742	3 COUNTERS - USE OR REFER TO DECIDE (MOD 10) COUNTERS	21	0	19	25	17	24	19	0	14	22	17	12	16	COUNTERS	0	27		
L 743	3 COUNTERS - USE OR REFER TO COUNT DETECT CIRCUITS	17	0	14	22	17	12	16	0	25	31	17	26	25	COUNTERS	0	27		
L 744	3 COUNTERS - USE OR REFER TO DOWN CLOCKS	27	0	25	31	17	26	26	0	28	31	17	26	26	COUNTERS	0	27		
L 745	3 COUNTERS - USE OR REFER TO UP CLOCKS	28	0	26	31	17	26	26	0	13	17	17	12	14	COUNTERS	0	27		
L 746	3 COUNTERS - USE OR REFER TO OTHER MODULOUS COUNTERS	15	0	13	17	17	12	14	0	21	29	17	21	22	COUNTERS	0	27		
L 747	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS	24	0	21	29	17	21	22	0	22	28	17	24	22	COUNTERS	0	27		
L 748	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DOWN-COUNTERS	24	0	22	28	17	24	22	0	21	27	17	18	18	COUNTERS	0	27		
L 749	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-DOWN COUNTERS	21	0	17	27	17	18	18	0	14	27	17	15	15	COUNTERS	0	27		
L 750	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	22	0	18	28	17	24	18	0	17	26	17	21	17	COUNTERS	0	27		
L 751	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF RING COUNTERS	9	0	6	13	17	3	7	0	10	17	17	9	11	COUNTERS	0	27		
L 752	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF COUNTERS FEEDING STOPAGE REGISTERS	19	0	14	27	17	15	15	0	17	26	17	21	17	COUNTERS	0	27		
L 753	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	21	0	17	26	17	21	17	0	17	26	17	21	17	COUNTERS	0	27		
L 754	3 COUNTERS - TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS	13	0	10	17	17	9	11	0	17	17	17	9	11	COUNTERS	0	27		
L 755	3 COUNTERS - CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF DECADE COUNTERS	9	0	8	11	17	6	9	0	8	12	17	6	8	COUNTERS	0	27		
L 756	3 COUNTERS - DETERMINE THE STATE OF EACH FLIP-FLOP IN RING COUNTERS FOR SPECIFIC INPUT PULSES	9	0	8	12	17	6	8	0	13	19	17	15	14	COUNTERS	0	27		
L 757	3 COUNTERS - DETERMINE THE APPROPRIATE AND GATE NECESSARY IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED COUNT	16	0	13	19	17	15	14	0	50	47	58	41	52	TIMING CIRCUITS	0	27		
M 758	1 TIMING CIRCUITS - WORK WITH SAWTOOTH WAVE GENERATORS	49	0	50	47	58	41	52	0	40	34	50	26	42	TIMING CIRCUITS	0	27		
M 759	1 TIMING CIRCUITS - WORK WITH TRAPEZOIDAL WAVE GENERATORS	39	0	40	47	58	41	52	0	43	41	58	35	45	TIMING CIRCUITS	0	27		
M 760	1 TIMING CIRCUITS - WORK WITH PULSED OSCILLATORS	42	0	43	47	58	41	52	0	47	58	38	49	49	TIMING CIRCUITS	0	27		
M 761	1 TIMING CIRCUITS - WORK WITH BLOCKING OSCILLATORS	47	0	47	58	38	49	49	0	47	58	38	49	49	TIMING CIRCUITS	0	27		
M 762	1 TIMING CIRCUITS - WORK WITH MASTER STATION TIMING	18	0	17	19	33	9	19	0	17	19	33	9	19	TIMING CIRCUITS	0	27		
M 763	1 TIMING CIRCUITS - USE OR REFER TO RISE TIME	47	0	48	46	50	47	48	0	48	46	50	47	48	TIMING CIRCUITS	0	27		
M 764	1 TIMING CIRCUITS - USE OR REFER TO FALL OR FLYBACK TIME	46	0	48	43	50	47	47	0	48	43	50	47	47	TIMING CIRCUITS	0	27		
M 765	1 TIMING CIRCUITS - USE OR REFER TO SWEEP TIME	51	0	54	46	50	55	55	0	54	46	50	55	55	TIMING CIRCUITS	0	27		
M 766	1 TIMING CIRCUITS - USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH WAVEFORMS	44	0	48	38	58	44	44	0	48	38	58	44	44	TIMING CIRCUITS	0	27		

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

PCT HRS.	RESP	YES	303X3 DAFSC/CONUS/OS GRPS	
TASK	GROUP SUMMARY	PERCENT MEMBERS PERFORMING		
	CY-TSK	ALL	5	7
		SPC	SPC	SPC
		SPC	SPC	SPC
M 601	3 MOTORS - DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE	17	0	18
M 602	3 MOTORS - WORK WITH SYNCHRONOUS MOTORS	34	0	32
M 603	3 MOTORS - WORK WITH INDUCTION MOTORS	31	0	29
M 604	3 MOTORS - WORK WITH SPLIT-PHASE MOTORS	24	0	25
M 605	3 MOTORS - WORK WITH SOME COMBINATION OF SYNCHRONOUS, INDUCTION, SPLIT-PHASE MOTORS	30	0	29
M 606	3 MOTORS - WORK WITH SERVOS OR SYNCHROS	51	0	56
M 607	3 GENERATORS/ALTERNATORS - INSPECT	35	0	38
M 608	3 GENERATORS/ALTERNATORS - CLEAN OR LUBRICATE	31	0	32
M 609	3 GENERATORS/ALTERNATORS - OPERATE	33	0	34
M 610	3 GENERATORS/ALTERNATORS - REMOVE OR REPLACE	27	0	27
M 611	3 GENERATORS/ALTERNATORS - REMOVE OR REPLACE PARTS	19	0	20
M 612	3 GENERATORS/ALTERNATORS - TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS	32	0	33
M 613	3 GENERATORS/ALTERNATORS - TROUBLESHOOT DOWN TO COMPONENT PARTS	17	0	20
N 614	1 METERS - WORK WITH METERS	61	100	66
N 615	1 METERS - CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	23	0	23
N 616	1 METERS - CONSIDER THE FUNCTIONS OF MOVING COILS	26	0	27
N 617	1 METERS - CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	18	0	18
N 618	1 METERS - READ METER SCALES	61	100	65
N 619	1 METERS - EXTEND THE RANGE OF AMMETERS	32	0	38
N 620	1 METERS - ZERO OHMMETERS	59	100	65
N 621	1 METERS - ZERO AMMETERS	38	0	41
N 622	1 METERS - EXTEND THE RANGE OF VOLTMETERS	45	100	51
N 623	1 METERS - USE OR REFER TO VOLTMETER SENSITIVITY	43	0	44
N 624	1 METERS - CONSIDER BALLASTIC RESPONSE OF METER MOVEMENTS	5	0	6
N 625	1 METERS - CONSIDER OTHER METER MOVEMENTS	23	100	25
N 626	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - WORK WITH HYSTERESIS CURVES OR LOOPS	10	0	17
N 627	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - INSPECT	17	0	18
N 628	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - CLEAN	15	0	17
N 629	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - ADJUST	16	0	17
N 630	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - TROUBLESHOOT	16	0	17
N 631	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - REMOVE OR REPLACE	15	0	17
N 632	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - REMOVE OR REPLACE COMPONENTS	11	0	13
N 633	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - USE OR REFER TO HYSERESIS CURVES	4	0	4
N 634	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SATURABLE REACTORS	10	0	8
N 635	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - MEASURE OUTPUT WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF SATURABLE REACTORS	11	0	10
N 636	2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS	11	0	11

PCT MBR'S RESP 'YES' - 303X3 DAFSC/CONUS/JOS GRPS

OCCUPATIONAL ANALYSIS PROGRAM
USAFAOMC (ATC) RANDOLPH AFB TX

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK	N 837 2 MAGNETIC AMPLIFIERS/SATURABLE REACTORS - USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS	PERCENT MEMBERS PERFORMING			ALL			SKL			SKL			SKL			US					
		3	5	7	9	5	7	9	5	7	9	5	7	9	5	7	9	5	7	9		
	N 838 3 WAVE SHAPING CIRCUITS - WORK WITH INTERVALS (RISE TIME AND FALL TIME)	49	0	51	46	67	50	51	46	67	50	51	46	67	50	51	46	67	50	51	46	
	N 839 3 WAVE SHAPING CIRCUITS - USE OR REFER TO PULSE WIDTH (PW)	38	0	40	36	58	35	41	38	0	52	47	67	50	52	50	0	52	47	67	50	
	N 840 3 WAVE SHAPING CIRCUITS - USE OR REFER TO PULSE RECURRENT TIME (PRT)	50	0	52	47	67	50	50	0	52	47	67	50	52	50	0	52	47	67	50	52	
	N 842 3 WAVE SHAPING CIRCUITS - USE OR REFER TO PULSE FREQUENCY (PF)	50	0	52	47	67	50	50	0	52	47	67	50	52	50	0	52	47	67	50	52	
	N 843 3 WAVE SHAPING CIRCUITS - USE OR REFER TO DIFFERENTIATING CIRCUITS	47	0	47	47	67	47	47	0	47	47	67	47	67	47	0	47	47	67	47	67	
	N 844 3 WAVE SHAPING CIRCUITS - USE OR REFER TO INTEGRATING CIRCUITS	45	0	45	46	67	50	49	45	0	50	42	67	50	49	50	0	50	42	67	50	49
	N 845 3 WAVE SHAPING CIRCUITS - USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT	30	0	30	32	42	30	30	0	30	32	42	29	30	30	0	30	32	42	29	30	
	N 846 3 WAVE SHAPING CIRCUITS - DETERMINE WHETHER AN LR OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT AND OUTPUT CONFIGURATION	26	0	26	27	42	21	26	26	0	26	27	42	21	26	26	0	26	27	42	21	26
	N 847 3 WAVE SHAPING CIRCUITS - WORK WITH SQUARE WAVE GENERATORS	31	0	30	34	50	21	32	31	0	30	34	50	21	32	32	0	30	34	50	21	32
	N 848 3 WAVE SHAPING CIRCUITS - WORK WITH RECTANGULAR WAVE GENERATORS	23	0	22	27	50	9	24	23	0	22	27	50	9	24	24	0	22	27	50	9	24
	N 849 3 WAVE SHAPING CIRCUITS - WORK WITH TRIANGULAR (SAWTOOTH)	27	0	27	27	50	12	30	27	0	27	27	50	12	30	30	0	27	27	50	12	30
	N 850 3 WAVE GENERATORS - WORK WITH RAMP (TRAPEZOICAL)	22	0	20	24	33	6	23	22	0	20	24	33	6	23	23	0	20	24	33	6	23
	N 851 3 WAVE SHAPING CIRCUITS - WORK WITH FUNCTION GENERATORS	17	0	13	24	42	9	15	17	0	13	24	42	9	15	15	0	13	24	42	9	15
	0 852 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - WORK ON 0 853 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - INSPECT TRANSMIT OR RECEIVE SYSTEMS	3	0	4	2	0	0	4	3	0	5	2	0	0	4	4	0	5	2	0	0	4
	0 854 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - CLEAN TRANSMIT OR RECEIVE SYSTEMS	3	0	4	2	0	0	4	3	0	4	2	0	0	4	4	0	5	2	0	0	4
	0 855 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - ALIGN TRANSMIT OR RECEIVE SYSTEMS	3	0	5	2	0	0	5	3	0	5	2	0	0	5	5	0	5	2	0	0	5
	0 856 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - TROUBLESHOOT TO TRANSMIT OR RECEIVE SYSTEMS	3	0	4	2	0	0	4	3	0	4	2	0	0	4	4	0	5	2	0	0	4
	0 857 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - TROUBLESHOOT TO TRANSMIT OR RECEIVE COMPONENTS	3	0	4	2	0	0	4	3	0	4	2	0	0	4	4	0	5	2	0	0	4
	0 858 1 SINGLE INDEPENDENT SIDE BAND SYSTEMS - REMOVE OR REPLACE TRANSMIT OR RECEIVE SYSTEMS	3	0	3	2	0	0	3	3	0	3	2	0	0	3	3	0	3	2	0	0	3
	0 859 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - REMOVE OR REPLACE TRANSMIT OR RECEIVE COMPONENTS	3	0	4	2	0	0	4	3	0	4	2	0	0	4	4	0	5	2	0	0	4
	0 860 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - PERFORM TASKS ON AUDIO AMPLIFIERS	2	0	2	2	4	0	2	2	0	2	2	4	0	2	2	0	2	2	4	0	2
	0 861 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - PERFORM TASKS ON BALANCED MODULATORS	3	0	4	2	0	0	4	3	0	4	2	0	0	4	4	0	5	2	0	0	4
	0 862 1 SINGLE OR INDEPENDENT SIDE BAND SYSTEMS - PERFORM TASKS ON CARRIER OSCILLATORS	3	0	3	2	0	0	3	3	0	3	2	0	0	3	3	0	3	2	0	0	3

PCT MBR'S RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

TASK GROUP	RESP * YES - 30X3 DAFSC/CONUS/OS GRPS	SUMMARY	PERCENT MEMBERS PERFORMING											
			DY-TSK			ALL SPC			SKL SPC			US SPC		
			018	C19	C20	021	022	027	028	029	030	029	030	031
0 863	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON LC FILTERS					3	0	4	2	0	0	4		
0 864	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON CRYSTAL FILTERS					3	0	3	2	0	0	4		
0 865	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON MECHANICAL FILTERS					2	0	3	2	0	0	3		
0 866	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON OSCILLATORS					3	0	4	2	0	0	4		
0 867	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON MIXERS					3	0	4	2	0	0	4		
0 868	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON DRIVERS					3	0	5	2	1	0	5		
0 869	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON POWER AMPLIFIERS					4	0	4	2	0	0	6		
0 870	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS					3	0	4	2	0	0	4		
0 871	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON FREQUENCY CONVERTERS					3	0	4	2	0	0	4		
0 872	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON AMPLIFIERS					4	0	5	2	0	0	6		
0 873	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM TASKS ON DEMODULATORS					3	0	4	2	0	0	4		
0 874	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO SELECTIVE FADING					1	0	1	2	0	0	1		
0 875	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO PEAK POWER					3	0	3	2	0	0	3		
0 876	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO POWER OR EFFECTIVE POWER OF TRANSMITTERS					2	0	3	2	0	0	2		
0 877	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS					2	0	2	2	0	0	2		
0 878	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - CALCULATE PEAK FREQUENCY STABILITY					2	0	2	2	0	0	2		
0 879	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH TRANSMITTER SCHEMATIC DIAGRAMS					2	0	2	2	0	0	2		
0 880	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH RECEIVER SCHEMATIC DIAGRAMS					2	0	2	2	0	0	2		
0 881	1 SINGLE OR INDEPENDENT SIDEBAND SYSTEMS - PERFORM AERONAUTIC STATION ASSESSMENT PROGRAMS (ASAP)					0	0	1	0	0	0	1		
0 882	2 PULSE MODULATION SYSTEMS - WORK ON					37	0	39	35	75	41	39	PULSE MODULATION SYSTEMS	
0 883	2 PULSE MODULATION SYSTEMS - INSPECT					36	0	36	33	75	41	38		
0 884	2 PULSE MODULATION SYSTEMS - CLEAN					33	0	36	28	33	36	36		
0 885	2 PULSE MODULATION SYSTEMS - ALIGN					34	0	36	32	33	38	36		
0 886	2 PULSE MODULATION SYSTEMS - TROUBLESHOOT SYSTEM					36	0	38	32	31	41	38		
0 887	2 PULSE MODULATION SYSTEMS - REMOVE OR REPLACE COMPONENTS					35	0	37	32	33	41	37		
0 888	2 PULSE MODULATION SYSTEMS - REMOVE OR REPLACE COMPONENTS					33	0	37	37	33	41	36		
0 889	2 PULSE MODULATION SYSTEMS - WORK ON PULSE-AMPLITUDE					34	0	37	31	31	41	36		
0 890	2 PULSE MODULATION SYSTEMS - WORK ON PULSE-AMPLITUDE					25	0	27	27	31	41	35		

PCT MBR'S RESP 'YES' - 303X3 DAFSC/CONUS/OS GRPS
TASK GROUP SUMMARY

**OCCUPATIONAL ANALYSIS PROGRAM
USAFOMC (ATE) / RANDOLPH AFB TX**

TASK GROUP SUMMARY		PERCENT MEMBERS PERFORMING									
	DY-TASK	ALL	3	5	7	9	5	5	0's		
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
		018	019	020	021	022	027	028			
0 891 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-DURATION MODULATION (PDM)		17	0	20	13	50	26	18			
0 892 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-POSITION MODULATION (PPM)		9	0	9	10	42	9	10			
0 893 2 PULSE MODULATION SYSTEMS - WORK ON PULSE-CODE MODULATION (PCM)		10	0	9	11	42	15	9			
0 894 2 PULSE MODULATION SYSTEMS - WORK ON LINE PULSING MODULATION		11	0	7	17	25	6	7			
0 895 2 PULSE MODULATION SYSTEMS - DON'T KNOW TYPE OF MODULATION SYSTEM WORKED ON		10	0	15	3	0	12	15			
0 896 2 PULSE MODULATION SYSTEMS - WORK ON TIME DIVISION MULTIPLEXING (TDM)		3	0	2	5	25	0	2			
0 897 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON POWER SUPPLIES		35	0	38	32	42	41	38			
0 898 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON CHARGING CHOKE AND CHARGING DIODES		30	0	31	30	42	35	31			
0 899 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON PULSE FORMING NETWORKS		35	0	36	32	42	41	36			
0 900 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON TIMERS		27	0	28	26	42	35	27			
0 901 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON SWITCHES SUCH AS GAS THERATRONS		30	0	30	30	42	32	30			
0 902 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON PULSE TRANSFORMERS		35	0	37	32	42	38	37			
0 903 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON TRANSMITTER TUBES		34	0	35	32	42	38	35			
0 904 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON RF AMPLIFIERS CONVERTERS		33	0	35	31	42	35	36			
0 905 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON FREQUENCY AMPLIFIERS		27	0	28	27	33	21	30			
0 906 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON IF AMPLIFIERS		34	0	36	32	42	38	37			
0 907 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON DETECTORS		34	0	35	32	42	35	36			
0 908 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON VIDEO AMPLIFIERS		34	0	36	32	42	38	36			
0 909 2 PULSE MODULATION SYSTEMS - PERFORM TASKS ON POWER VIDEO AMPLIFIERS		23	0	24	22	17	15	26			
0 910 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)		36	0	37	35	75	41	37			
0 911 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE RECURRENCE TIME (PRT)		36	0	37	34	75	41	37			
0 912 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE WIDTH (PWI)		37	0	38	35	75	41	38			
0 913 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PULSE SHAPE		35	0	37	33	75	41	36			
0 914 2 PULSE MODULATION SYSTEMS - USE OR REFER TO PEAK POWER		35	0	36	34	75	38	36			
0 915 2 PULSE MODULATION SYSTEMS - USE OR REFER TO AVERAGE POWER		35	0	37	32	75	41	36			
0 916 2 PULSE MODULATION SYSTEMS - USE OR REFER TO DUTY CYCLE (DC)		29	0	28	31	75	26	29			
0 917 2 PULSE MODULATION SYSTEMS - CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)		31	0	32	28	75	26	33			

PCT. MBR'S RESP "YES" - 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	DY-TASK	OCCUPATIONAL ANALYSIS PROGRAM						USAFOMC (ATC) RANDOLPH AFB TX					
		ALL	SKL	SKL	SYL	SYL	SYL	ALL	SPC	SPC	SPC	SPC	SPC
	0 918 2 PULSE MODULATION SYSTEMS - MEASURE PULSE RECURRENCE TIME (PRF) OR PULSE RECURRENCE FREQUENCY (PRF)	34	0	35	32	67	35	35	0	0	0	0	0
	0 919 2 PULSE MODULATION SYSTEMS - USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	26	0	27	24	67	24	27	0	0	0	0	0
	0 920 2 PULSE MODULATION SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH TRANSMITTER SCHEMATIC DIAGRAMS	35	0	38	32	58	38	38	0	0	0	0	0
	0 921 2 PULSE MODULATION SYSTEMS - TRACE SIGNALS OR CURRENT PATHS THROUGH RECEIVER SCHEMATIC DIAGRAMS	34	0	36	30	58	38	36	0	0	0	0	0
	0 922 3 ANTENNAS - WORK WITH	58	0	62	51	67	65	62	0	0	0	0	0
	0 923 3 ANTENNAS - INSPECT	54	0	58	47	67	62	58	0	0	0	0	0
	0 924 3 ANTENNAS - CLEAN	51	0	57	42	59	59	57	0	0	0	0	0
	0 925 3 ANTENNAS - PHYSICALLY ALIGN	53	0	58	44	53	53	59	0	0	0	0	0
	0 926 3 ANTENNAS - ELECTRICALLY ALIGN	53	0	58	44	53	56	59	0	0	0	0	0
	0 927 3 ANTENNAS - TROUBLESHOOT TO	53	0	59	43	59	59	59	0	0	0	0	0
	0 928 3 ANTENNAS - TROUBLESHOOT TO COMPONENTS	50	0	57	40	53	62	56	0	0	0	0	0
	0 929 3 ANTENNAS - REMOVE OR INSTALL	48	0	53	42	53	53	53	0	0	0	0	0
	0 930 3 ANTENNAS - REMOVE OR REPLACE COMPONENTS	52	0	56	43	55	62	56	0	0	0	0	0
	0 931 3 ANTENNAS - USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	13	0	14	11	25	15	14	0	0	0	0	0
	0 932 3 ANTENNAS - USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	14	0	15	12	25	15	14	0	0	0	0	0
	0 933 3 ANTENNAS - DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE	10	0	12	8	17	15	11	0	0	0	0	0
	0 934 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS OF CORRECT LENGTH (HALF-WAVE) ACT AS RESISTIVE LOADS TO THE GENERATOR	13	0	15	9	25	15	14	0	0	0	0	0
	0 935 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS LONGER THAN HALF-WAVE ACT AS INDUCTIVE LOADS TO THE GENERATOR	10	0	11	7	25	12	11	0	0	0	0	0
	0 936 3 ANTENNAS - USE OR REFER TO THE GENERAL RULE THAT ANTENNAS SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	9	0	9	7	17	12	8	0	0	0	0	0
	0 937 3 ANTENNAS - WORK WITH HERTZ	3	0	4	1	0	0	5	0	0	0	0	0
	0 938 3 ANTENNAS - WORK WITH MARCOMI	2	0	2	1	0	0	2	0	0	0	0	0
	0 939 3 ANTENNAS - WORK WITH RHOMBIC	2	0	2	2	0	0	2	0	0	0	0	0
	0 940 3 ANTENNAS - WORK WITH DIPOLE	20	0	22	16	42	26	22	0	0	0	0	0
	0 941 3 ANTENNAS - WORK WITH SCIMITAR	1	0	1	1	0	0	1	0	0	0	0	0
	0 942 3 ANTENNAS - WORK WITH PARABOLIC	52	0	54	50	67	62	52	0	0	0	0	0
	0 943 3 ANTENNAS - WORK WITH GROUND PLANE	6	0	4	6	6	6	5	0	0	0	0	0
	0 944 3 ANTENNAS - WORK WITH BROADSIDE ARRAYS	3	0	2	5	17	0	2	0	0	0	0	0
	0 945 3 ANTENNAS - WORK WITH END-FIRE ARRAYS	6	0	8	4	8	3	9	0	0	0	0	0
	0 946 3 ANTENNAS - WORK WITH CARDIOTOID ARRAYS	3	0	3	5	0	0	3	0	0	0	0	0
	0 947 3 ANTENNAS - WORK WITH COLLINEAR ARRAYS	3	0	3	3	0	0	2	0	0	0	0	0
	0 948 3 ANTENNAS - WORK WITH PHASE ARRAYS	9	0	10	7	25	9	10	0	0	0	0	0
	0 949 3 ANTENNAS - USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS	0	0	10	7	25	9	10	6	0	0	0	0

PCT MBR'S RESP 'YES' - 3Q3X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
USAFOPC (ATC) RANDQLPH AFB TX

	TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING	DY-TSK						ALL					
					3	5	7	9	5	3	5	7	9	5	3	5
					SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	0 950 3 ANTENNAS - MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF RADIATION FIELDS				15	0	17	13	17	21	16					
	0 951 3 ANTENNAS - USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS															
	0 952 3 ANTENNAS - MEASURE ELECTROMAGNETIC RADIATION FIELDS				5	0	5	4	0	9	4					
	- 0 953 3 ANTENNAS - USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION				4	0	5	3	0	3	5					
	(0 954 3 ANTENNAS - USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD				3	0	4	2	0	3	4					
	0 955 3 ANTENNAS - WORK ON LINEARLY POLARIZED				22	0	22	23	42	21	21					
	0 956 3 ANTENNAS - WORK ON CIRCULAR POLARIZED				35	0	38	31	42	41	38					
	0 957 3 ANTENNAS - MEASURE OR DETERMINE THE POLARITY OF				20	0	17	25	17	9	19					
	0 958 3 ANTENNAS - CONSTRUCT, OR MAKE CALCULATIONS NECESSARY TO CONSTRUCT ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVE LENGTHS				2	0	2	2	6	0	2					
	0 959 3 ANTENNAS - WORK WITH ANTENNA ARRAYS CONTAINING PARASITIC ELEMENTS SERVING AS DIRECTORS				10	0	10	11	0	9	11					
	0 960 3 ANTENNAS - WORK WITH ANTENNA ARRAYS CONTAINING PARASITIC ELEMENTS SERVING AS REFLECTORS				16	0	18	13	8	26	17					
	0 961 3 ANTENNAS - DON'T KNOW WHAT KIND OF ELEMENT ARRAYS WORKED ON CONTAIN				22	0	26	17	8	24	26					
	0 962 3 ANTENNAS - WORK ON UNIDIRECTIONAL				36	0	36	37	42	32	38					
	0 963 3 ANTENNAS - WORK ON BI-DIRECTIONAL				14	0	14	14	33	12	14					
	0 964 3 ANTENNAS - WORK WITH ROTARY ARRAYS				28	0	30	26	58	29	29					
	P 965 1 TRANSMISSION LINES - WORK WITH HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES - REFER TO OR USE COPPER LOSS OR I2R LOSS				22	0	22	22	33	24	22 TRANSMISSION LINES					
	P 966 1 TRANSMISSION LINES - REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES - REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES - REFER TO OR USE DIELECTRIC LOSS IN TRANSMISSION LINES - REFER TO OR USE LEAKAGE LOSSES IN TRANSMISSION LINES WORK WITH TWISTED PAIR				3	0	3	3	0	3	3					
	P 967 1 TRANSMISSION LINES - WORK WITH TWIN LEAD				6	0	7	6	0	3	7					
	P 968 1 TRANSMISSION LINES - WORK WITH OPEN TWO-WIRE				6	0	7	6	6	9	7					
	P 969 1 TRANSMISSION LINES - WORK WITH FLEXIBLE COAXIAL CABLE				5	0	5	6	0	9	5					
	P 970 1 TRANSMISSION LINES - WORK WITH RIGID COAXIAL CABLE				6	0	7	6	47	9	7					
	P 971 1 TRANSMISSION LINES - TROUBLESHOOT				7	0	7	8	8	15	6					
	P 972 1 TRANSMISSION LINES - WORK WITH OPEN TWO-WIRE				6	0	5	7	8	5	4					
	P 973 1 TRANSMISSION LINES - WORK WITH FLEXIBLE COAXIAL CABLE				3	0	4	2	0	6	4					
	P 974 1 TRANSMISSION LINES - WORK WITH RIGID COAXIAL CABLE				20	0	20	20	33	24	20					
	P 975 1 TRANSMISSION LINES - TROUBLESHOOT				16	0	15	17	33	21	14					
	P 976 1 TRANSMISSION LINES - ANALYZE VOLTAGE OR CURRENT WAVEFORMS				17	0	19	13	25	21	20					
	P 977 1 TRANSMISSION LINES - TO DETERMINE THE TYPE OF TERMINATION (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)				6	0	6	17	6	17	3					
	P 978 1 TRANSMISSION LINES - SELECT APPROPRIATE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS				5	0	5	6	25	3	6					
	P 979 1 TRANSMISSION LINES - USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS				9	0	9	10	25	15	8					
	P 980 1 TRANSMISSION LINES - MEASURE STANDING WAVE RATIOS (SWR)				15	0	14	15	17	16	14					
	P 981 1 TRANSMISSION LINES - CALCULATE STANDING WAVE RATIOS (SWR)				9	0	8	17	9	9	9					
	P 982 1 TRANSMISSION LINES - PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER-WAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS				3	0	3	4	8	0	3					

PCT MBRs. RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROGRAM
 USAFOMC (ATC) RANDOLPH AFB TX

	0Y-TSK	ALL	SKL	SKL	SKL	US	0's	SPC	SPC	SPC	SPC	SPC	SPC
P 983 1	TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	7	0	7	8	17	6	7	5	5	5	5	5
P 984 1	TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	3	0	3	5	8	0	3	0	0	0	0	0
P 985 1	TRANSMISSION LINES - USE OR REFER TO THE TERM CHARACTERISTIC IMPEDANCE (Z0)	0	0	6	12	17	1	7	0	0	0	0	0
P 986 1	TRANSMISSION LINES - CALCULATE THE CHARACTERISTIC IMPEDANCE (Z0)	3	0	3	4	0	0	0	0	0	0	0	0
P 987 1	TRANSMISSION LINES - USE OR REFER TO THE TERM CUT OFF FREQUENCY	4	0	3	7	8	3	4	4	4	4	4	4
P 988 1	TRANSMISSION LINES - USE OR REFER TO THE TERM VELOCITY FACTOR (K)	1	0	1	2	0	0	1	1	1	1	1	1
P 989 1	TRANSMISSION LINES - COMPUTE THE ELECTRICAL LENGTH OF LINES FOR PARTICULAR FREQUENCIES	4	0	4	4	8	3	5	5	5	5	5	5
P 990 1	TRANSMISSION LINES - CONSTRUCT LINES OF PARTICULAR ELECTRICAL LENGTHS FOR GIVEN FREQUENCIES	4	0	5	2	8	6	6	6	6	6	6	6
P 991 1	TRANSMISSION LINES - USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH INCREASES	4	0	4	5	8	3	5	5	5	5	5	5
P 992 1	TRANSMISSION LINES - WORK WITH NONRESONANT (FLAT)	6	0	6	7	8	6	7	6	6	6	6	6
P 993 1	TRANSMISSION LINES - WORK WITH RESONANT	7	0	5	10	8	3	5	5	5	5	5	5
P 994 1	TRANSMISSION LINES - WORK WITH LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	7	0	6	9	8	0	7	7	7	7	7	7
P 995 2	WAVEGUIDES OR CAVITY RESONATORS - WORK WITH	56	100	49	67	62	60	60	60	60	60	60	60
P 996 2	WAVEGUIDES OR CAVITY RESONATORS - INSPECT	53	100	57	46	56	58	58	58	58	58	58	58
P 997 2	WAVEGUIDES OR CAVITY RESONATORS - CLEAN	48	0	52	42	25	50	52	52	52	52	52	52
P 998 2	WAVEGUIDES OR CAVITY RESONATORS - PRESURIZE	43	0	45	41	8	41	46	46	46	46	46	46
P 999 2	WAVEGUIDES OR CAVITY RESONATORS - PURGE	28	0	28	27	1	26	29	29	29	29	29	29
P1000 2	WAVEGUIDES OR CAVITY RESONATORS - TROUBLESHOOT	42	0	49	34	33	44	49	49	49	49	49	49
P1001 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL WAVEGUIDES	47	0	52	39	33	56	52	52	52	52	52	52
P1002 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL WAVEGUIDE SECTIONS	52	100	57	43	33	56	58	58	58	58	58	58
P1003 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL DUMMY LOADS	46	0	50	39	33	44	52	52	52	52	52	52
P1004 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL E BENDS	26	0	27	25	25	26	27	27	27	27	27	27
P1005 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL H BENDS	2*	0	24	24	25	24	24	24	24	24	24	24
P1006 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL OTHER BENDS	35	100	40	27	17	41	39	39	39	39	39	39
P1007 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL CHONE JOINTS	22	0	21	22	17	21	21	21	21	21	21	21
P1008 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL ROTATING JOINTS	43	0	45	39	33	44	46	46	46	46	46	46
P1009 2	WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL DIRECTIONAL COUPLERS	48	0	54	40	33	53	54	54	54	54	54	54

PCT MBR'S RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	ALL	3	5	7	9	5	5
	SKL	SKL	SKL	SKL	SKL	US	0's
	SPC	SPC	SPC	SPC	SPC	SPC	SPC
DY-TSK							
P1010 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL BIDIRECTIONAL COUPLERS	26	0	26	25	33	24	27
P1011 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL WAVEGUIDE SHATTERS	32	0	37	25	32	38	
P1012 2 WAVEGUIDES OR CAVITY RESONATORS - REMOVE OR INSTALL TRANSMIT (TR) OR ANTI-TRANSMIT (ATR) TUBES	42	0	47	35	33	38	49
P1013 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO "A" WALL OF WAVEGUIDES	9	0	8	10	17	6	8
P1014 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO "B" WALL OF WAVEGUIDES	8	0	7	9	17	6	7
P1015 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO CUT OFF FREQUENCY	11	0	11	10	0	6	12
P1016 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO FREQUENCY-DETERMINING WALL	10	0	11	9	8	6	12
P1017 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO POWER-DETERMINING WALL	7	0	6	8	8	3	6
P1018 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	4	0	4	3	0	0	5
P1019 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	4	0	5	3	0	3	5
P1020 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS	7	0	8	4	0	3	9
P1021 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" OF WALL SIZE OF .7 WAVELENGTHS OF THE OPERATING FREQUENCY GENERAL RULE THAT MOST "A" WALLS RANGE FROM .2 TC .5 WAVELENGTHS IN SIZE, WITH .35 AS AN AVERAGE	9	0	4	4	6	2	4
P1022 2 WAVEGUIDES OR CAVITY RESONATORS - USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" LINES IN WAVEGUIDES	4	0	4	5	8	3	4
P1023 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES A WAVEGUIDE FOR SPECIFIC INSTALLATION	3	0	3	2	0	3	3
P1024 2 WAVEGUIDES OR CAVITY RESONATORS - USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" LINES IN WAVEGUIDES	7	0	6	8	0	6	6
P1025 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES OF "E" OR "H" LINES IN WAVEGUIDES	3	0	4	1	0	0	4
P1026 2 WAVEGUIDES OR CAVITY RESONATORS - MEASURE THE TIME PHASE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES HIGH POWER PROBES	2	0	3	1	0	0	4
P1027 2 WAVEGUIDES OR CAVITY RESONATORS - USE OR REFER TO THE LOW POWER PROBES	3	0	3	2	0	0	4
P1028 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - HIGH POWER PROBES	16	0	16	17	42	15	16
P1029 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - LOW POWER PROBES	16	0	13	20	42	18	13
P1030 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - LOOPS	20	0	15	27	58	9	17
P1031 2 WAVEGUIDES OR CAVITY RESONATORS - ENERGY COUPLING USED - APERTURES (WINDOWS OR IRISSES)	30	0	29	31	42	24	31

PC1 NEWS #659 VERS - 303X3 DAFSC/COUNUS/05 GPPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

TASK GROUP RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS	TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	OCCUPATIONAL ANALYSIS PROGRAM USAFCOM (ALC) RANDOLPH AFB TX									
		BY-TASK					MICROWAVE AMPLIFIERS AND OSCILLATORS				
		ALL	SKL	SKL	ALL	SPC	SPC	SPC	SPC	SPC	SPC
P1032	2 WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - CHOOSE	16	0	16	22	58	26	14			
P1033	2 WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - ROTATING	47	0	46	47	67	41	47			
P1034	2 WAVEGUIDES OR CAVITY RESONATORS - JOINTS USED - DON'T	13	100	18	4	0	15	19			
P1035	2 WAVEGUIDES OR CAVITY RESONATORS - TUNE CAVITY RESONATORS -	30	0	32	27	25	24	39			
P1036	2 WAVEGUIDES OR CAVITY RESONATORS - TUNE CAVITY RESONATORS -	38	0	41	32	42	32	43			
P1037	2 WAVEGUIDES OR CAVITY RESONATORS - MEASURE THE FREQUENCY OF SIGNALS ON CAVITY RESONATORS	34	0	36	30	42	29	38			
P1038	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	55	100	58	51	67	53	59	MICROWAVE AMPLIFIERS AND OSCILLATORS		
P1039	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO INTERELECTRODE CAPACITANCE	16	0	16	16	8	9	17			
P1040	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO ELECTRON TRANSIT TIME	15	0	15	13	9	6	17			
P1041	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO LEAD INDUCTANCE	10	0	10	11	8	3	11			
P1042	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	21	0	25	13	25	18	26			
P1043	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	12	0	11	14	8	9	11			
P1044	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - USE OR REFER TO ELECTRON BUNCHING	15	0	15	16	8	15	15			
P1045	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH TWO- CAVITY KLYSTRONS	7	0	7	7	8	6	7			
P1046	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH THREE- CAVITY KLYSTRONS	3	0	3	4	8	6	2			
P1047	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH REFLEX KLYSTRONS	29	0	29	28	42	18	32			
P1048	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH TRAVELING-WAVE TUBES (TWT)	24	0	23	25	25	29	22			
P1049	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH MONOGENERATIVE PARAMETRIC AMPLIFIERS	8	0	9	7	8	12	7			
P1050	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH UP- CONVERTER PARAMETRIC AMPLIFIERS	5	0	4	7	17	0	5			
P1051	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH MAGNETRONS	54	0	57	49	58	47	59			
P1052	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - WORK WITH BACKWARD WAVE OSCILLATORS (BWO)	16	0	15	18	17	15	16			
P1053	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - INSPECT KLYSTRONS OR TWT'S	34	0	37	31	58	29	39			
P1054	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - CLEAN KLYSTRONS	29	0	32	24	17	26	34			
P1055	3 MICROWAVE AMPLIFIERS AND OSCILLATORS - TUNE KLYSTRONS OP TWT ELECTRICALLY	25	0	27	22	25	21	28			

PCT MARS RESP 'YES' - 303X3 DAFSC/CONUS/OS GRPS

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

	TASK	GROUP	SUMMARY	PERCENT MEMBERS PERFORMING	DVS-TSK						DY-TSK						
					3	5	7	9	5	SKL	SKL	SKL	SPC	SPC	SPC	SPC	SPC
	P1056	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - TUNE KLYSTRONS OR TWT MECHANICALLY	OR	2%	0	26	21	25	10	29	0%	0	0	0	0	0
	P1057	3	MICROWAVE AMPLIFIERS OR OSCILLATORS - PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT		36%	0	39	32	31	41	40						
	P1058	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - TROUBLESHOOT KLYSTRONS OR TWT		3%	0	35	32	25	1	37						
	P1059	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT		37%	0	40	32	25	-	41						
	P1060	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS		17%	0	19	14	8	21	19						
	P1061	3	MICROWAVE AMPLIFIERS AND OSCILLATORS - INSPECT PARAMETRIC AMPLIFIERS		12%	0	13	10	50	9	13						
	P1062	3	PARAMETRIC AMPLIFIERS - CLEAN		10%	0	12	7	17	9	12						
	P1063	3	PARAMETRIC AMPLIFIERS - ADJUST		11%	0	12	9	25	9	12						
	P1064	3	PARAMETRIC AMPLIFIERS - TUNE		10%	0	11	9	25	9	11						
	P1065	3	PARAMETRIC AMPLIFIERS - PERFORM OPERATIONAL CHECKS		13%	0	14	11	33	15	14						
	P1066	3	PARAMETRIC AMPLIFIERS - TROUBLESHOOT		12%	0	14	9	25	12	16						
	P1067	3	PARAMETRIC AMPLIFIERS - REMOVE OR REPLACE		12%	0	12	11	25	9	13						
	P1068	3	PARAMETRIC AMPLIFIERS - REMOVE OR REPLACE COMPONENTS		7%	0	8	7	17	6	7						
	P1069	3	MAGNETRONS - INSPECT		51%	0	54	45	58	44	57						
	P1070	3	MAGNETRONS - CLEAN		45%	0	50	37	25	41	52						
	P1071	3	MAGNETRONS - ADJUST		45%	0	51	37	25	41	53						
	P1072	3	MAGNETRONS - TUNE		49%	0	52	44	25	44	55						
	P1073	3	MAGNETRONS - PERFORM OPERATIONAL CHECKS		52%	0	55	46	42	44	59						
	P1074	3	MAGNETRONS - TROUBLESHOOT		48%	0	53	42	45	56	57						
	P1075	3	MAGNETRONS - REMOVE OR REPLACE		50%	0	55	43	25	44	57						
	P1076	3	MAGNETRONS - REMOVE OR REPLACE COMPONENTS		19%	0	19	16	0	12	21						
	P1077	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF COLLECTOR PLATES		6%	0	5	6	6	6	6						
	P1078	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATCHER CAVITIES		5%	0	3	8	8	3	3						
	P1079	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATCHER GRID		5%	0	3	8	8	3	2						
	P1080	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF FEEDBACK LOOPS		6%	0	4	8	8	3	4						
	P1081	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF BUNCHER CAVITIES		4%	0	2	7	8	3	2						
	P1082	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF DRIFT SPACES		4%	0	2	8	8	8	2						
	P1083	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF BUNCHER GRIDS		5%	0	7	8	9	7	2						
	P1084	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CONTROL GRIDS		7%	0	6	9	8	6	6						
	P1085	3	TWO CAVITY KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATHODES		8%	0	7	9	8	6	7						
	P1086	3	REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF REPELLER (REFLECTOR) PLATES		24%	0	26	21	42	9	29						

PCT WORKS RESP "YES": 303X3 DAFSC/CONUS/OS GRPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	DY-TSK	ALL						0's					
		3	5	7	9	5	5	SKL	SKL	SKL	SPC	SPC	SPC
P1087	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF GRIDS	22	0	24	18	33	9	27	0	19	021	022	028
P1088	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF GRID CAVITY GAPS	17	0	13	25	9	22	0	10	11	0	0	0
P1089	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF RESONANT CAVITIES	22	0	24	21	33	12	26	0	10	12	0	0
P1090	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF MAGNETIC COUPLING LOOPS	18	0	19	16	42	6	22	0	10	11	0	0
P1091	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF FILAMENTS	24	0	26	20	33	15	29	0	10	11	0	0
P1092	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF CATHODES	23	0	25	20	33	12	27	0	10	11	0	0
P1093	3 REFLEX KLYSTRONS - USE OR REFER TO THE OPERATING PRINCIPLES OF OUTPUT LEADS	24	0	25	22	33	9	29	0	10	11	0	0
P1094	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF FILAMENTS OF	16	0	14	19	8	15	15	0	10	11	0	0
P1095	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF CATHODES OF	14	0	12	17	8	15	13	0	10	11	0	0
P1096	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF MODULATOR GRIDS OF	12	0	11	14	3	15	11	0	10	11	0	0
P1097	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF ANODES OF	14	0	12	17	8	15	12	0	10	11	0	0
P1098	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF HELIXES OF	13	0	10	17	8	9	11	0	10	11	0	0
P1099	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF COLLECTORS OF	15	0	13	17	8	15	13	0	10	11	0	0
P1100	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF MAGNETS OF	12	0	10	14	8	15	10	0	10	11	0	0
P1101	3 TRAVELING WAVE TUBES - USE OR REFER TO THE OPERATING PRINCIPLES OF ATTENUATORS OF	14	0	13	16	8	15	13	0	10	11	0	0
P1102	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON FERRITE CIRCULATORS	7	0	5	10	17	6	5	0	10	11	0	0
P1103	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON SIGNAL CAVITIES	6	0	5	9	25	6	4	0	10	11	0	0
P1104	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON IDLER CAVITIES	6	0	5	9	25	6	4	0	10	11	0	0
P1105	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON VARACTOR DIODES	6	0	6	11	25	6	6	0	10	11	0	0
P1106	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON FERRITE ISOLATORS	7	0	6	9	25	6	6	0	10	11	0	0
P1107	3 PARAMETRIC AMPLIFIERS - PERFORM TASKS ON REVERSE-BIAS BATTERIES	3	0	3	3	25	3	3	0	10	11	0	0
P1108	3 MAGNETRONS - PERFORM TASKS ON ANODES OF	12	0	12	13	17	9	13	0	10	11	0	0
P1109	3 MAGNETRONS - PERFORM TASKS ON ANODE COOLING PINS OF	9	0	10	8	8	3	11	0	10	11	0	0
P1110	3 MAGNETRONS - PERFORM TASKS ON COUPLING LOOPS OF	11	0	10	12	17	0	13	0	10	11	0	0
P1111	3 MAGNETRONS - PERFORM TASKS ON HEATER LEADS OF	20	0	20	21	25	9	22	0	10	11	0	0
P1112	3 MAGNETRONS - PERFORM TASKS ON RESONANT CAVITIES OF	17	0	17	17	17	9	16	0	10	11	0	0
P1113	3 MAGNETRONS - PERFORM TASKS ON CATHODES OF	13	0	13	14	17	9	14	0	10	11	0	0
P1114	3 MAGNETRONS - PERFORM TASKS ON MAGNETS OF	21	0	22	20	25	15	24	0	10	11	0	0
Q1115	1 REGISTERS - USE OR REFER TO STORAGE	23	0	20	26	33	24	20	0	10	11	0	0

PCT MBR'S RESP *YES*- 303X3 DAFSC/CONUS/OS.GRPS

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**
**OCCUPATIONAL ANALYSIS PROGRAM
USAFCOM (ATC) RANDOLPH AFB TX**

	3	5	7	9	5	5
	ALL	SKL	SKL	SKL	US	0's
	SPC	SPC	SPC	SPC	SPC	SPC
	016	Q19	020	021	022	027
	028					
DY-TSK						
Q1116 1 REGISTERS - USE OR REFER TO SHIFT SYMBOLS OF SHIFT	23	0	19	28	33	16
Q1117 1 REGISTERS - USE OR REFER TO LOGIC SYMBOLS OF SHIFT	23	0	20	29	33	18
Q1118 1 REGISTERS - USE OR REFER TO LOGIC SYMBOLS OF STORAGE	23	3	19	29	33	18
Q1119 1 REGISTERS - TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF	20	0	17	25	25	15
SHIFT						
Q1120 1 REGISTERS - TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF	18	0	17	21	25	12
REGISTER OTHER THAN SHIFT OR STORAGE						
Q1121 1 REGISTERS- DETERMINE THE STATE OF EACH FLIP-FLOP OF A	17	0	16	19	25	12
SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES						
HAVE PASSED						
Q1122 2 STORAGE DEVICES - WORK WITH	15	0	13	18	17	12
Q1123 2 STORAGE DEVICES - USE OR REFER TO DELAY LINES	12	0	12	13	17	12
Q1124 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC CORES OR	6	0	4	8	17	6
BIMAGS						
Q1125 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC DRUMS	2	0	3	4	8	0
Q1126 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC TAPES	4	0	5	2	6	6
Q1127 2 STORAGE DEVICES - USE OR REFER TO ACCESS TIME OR SPEED OF	5	0	4	7	9	3
MEMORY SYSTEMS						
Q1128 2 STORAGE DEVICE - USE OR REFER TO STORAGE CAPACITY OF	10	0	9	11	8	12
MEMORY SYSTEMS						
Q1129 2 STORAGE DEVICES - USE OR REFER TO VOLATILITY OF MEMORY	4	0	4	5	8	6
SYSTEMS						
Q1130 2 STORAGE DEVICES - USE OR REFER TO LOGIC SYMBOL OF DELAY	9	0	8	13	17	6
LINES						
Q1131 2 STORAGE DEVICES - USE OR REFER TO MAGNETIC DISKS	2	0	2	2	8	3
Q1132 2 STORAGE DEVICES - USE OR REFER TO THIN FILM	1	0	2	1	8	0
Q1133 2 STORAGE DEVICES - USE OR REFER TO SEMICONDUCTOR MEMORY	10	0	9	13	17	12
(INTEGRATED) CIRCUITS						
Q1134 2 STORAGE DEVICES - USE OR REFER TO BUBBLE MEMORY	0	0	1	0	8	0
Q1135 2 STORAGE DEVICES - USE OR REFER TO PUNCH CARDS	1	0	1	2	8	0
Q1136 2 STORAGE DEVICES - USE OR REFER TO PAPER TAPE	9	0	8	12	8	3
Q1137 2 STORAGE DEVICES - USE OR REFER TO RANDOM ACCESS MEMORY	8	0	5	12	17	9
(RAM)						
Q1138 2 STORAGE DEVICES - USE OR REFER TO READ ONLY MEMORY (ROM)	7	0	6	10	17	9
Q1139 2 STORAGE DEVICES - USE OR REFER TO PROGRAMMABLE READ ONLY	6	0	5	8	8	9
MEMORY (PROM)						
Q1140 2 STORAGE DEVICES - USE OR REFER TO TRANSFORMER READ ONLY	1	0	0	2	8	0
STORAGE (TRANSFORMER)						
Q1141 2 STORAGE DEVICES - USE OR REFER TO CAPACITY READ ONLY	1	0	1	0	8	3
STORAGE (CROSS)						
Q1142 2 STORAGE DEVICES - INSPECT	10	0	9	12	25	12
Q1143 2 STORAGE DEVICES - CLEAN	8	0	8	9	9	9
Q1144 2 STORAGE DEVICES - ALIGN	5	0	5	6	8	5
Q1145 2 STORAGE DEVICES - ADJUST	5	0	5	5	8	6
Q1146 2 STORAGE DEVICES - TROUBLESHOOT MEMORY SYSTEMS	7	0	5	9	17	9
Q1147 2 STORAGE DEVICES - REMOVE OR REPLACE SUBASSEMBLIES OR	6	0	5	7	17	4
COMPONENTS						

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

OCCUPATIONAL ANALYSIS PROJECT USAFCOM (ATC) RANDOLPH AFB TX											
PCT MEMBERS RESP • YES•	303X3 DAFSC/CONUS/OS GRPS	TASK GROUP SUMMARY	PERCENT MEMBERS PERFORMING	ALL	SKL	SKL	SKL	SKL	SKL	SKL	SKL
				SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		DY-7SM		018	019	020	021	022	027	028	0's
Q1149	2	STORAGE DEVICES - TRACE SIGNAL FLOW USING LOGIC DIAGRAMS OR SCHEMATICS	8	0	6	11	17	9	5	5	5
Q1150	3	DIGITAL-TO-ANALOG(I/D/A) OR (ANALOG-TO-DIGITAL(A/D) CONVERTERS - WORK WITH	9	0	9	10	8	12	9	TO DIGITAL CONVERTERS	
Q1151	3	DIGITAL-TO-ANALOG(I/D/A) OR (ANALOG-TO-DIGITAL(A/D) CONVERTERS - COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL(I/D/A) CONVERTERS FOR GIVEN INPUT VOLTAGES	6	0	5	7	8	3	6		
Q1152	3	DIGITAL-TO-ANALOG(I/D/A) OR (ANALOG-TO-DIGITAL(A/C) CONVERTERS - USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL (I/D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS	9	0	7	10	17	12	6		
Q1153	3	DIGITAL-TO-ANALOG(I/D/A) OR (ANALOG-TO-DIGITAL(A/C) CONVERTERS - COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC (I/D/A) CONVERTER	7	0	5	10	8	9	6		
Q1154	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - TASKS ON SAMPLE FUNCTION	7	0	5	10	8	6	6		
Q1155	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - TASKS ON HOLD FUNCTION	7	0	6	8	17	12	5		
Q1156	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - TASKS ON DIGITIZE FUNCTION	5	0	4	7	17	9	4		
Q1157	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - WHICH FUNCTION TASKS PERFORMED ON	5	0	7	3	7	6	7		
Q1158	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO SAMPLE FUNCTION	8	0	5	12	8	6	6		
Q1159	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO HOLD FUNCTION	7	0	5	12	8	6	5		
Q1160	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO COMPARE FUNCTION	7	0	5	10	17	9	5		
Q1161	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO DIGITAL FUNCTION	7	0	5	11	17	9	5		
Q1162	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO MECHANICAL(I/D/A) CONVERTERS	7	0	9	6	17	9	7		
Q1163	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO ELECTRONIC(A/D) CONVERTERS	10	0	9	12	17	15	8		
Q1164	3	DIGITAL-TO-ANALOG(I/D/A) CONVERTER CIRCUITS - USE OR REFER TO LOGIC SYMBOLS	9	0	9	11	17	15	8		
R1165	1	PHANTASTRON - WORK WITH PHANTASTRON CIRCUITRY	20	0	11	22	25	21	19	PHANTASTRONS	
R1166	1	SCHMITT TRIGGER CIRCUITS - WORK WITH	23	0	23	24	33	21	26	SCHMITT TRIGGERS	
R1167	2	SCHMITT TRIGGER CIRCUITS - TRACE DATA FLOW THROUGH SCHEMATIC DIAGRAMS OF	18	0	17	21	25	15	18		
R1168	2	SCHMITT TRIGGER CIRCUITS - USE OR REFER TO LOGIC SYMBOLS	17	0	16	20	33	15	17		
R1169	3	CABLE FABRICATION - FABRICATE MULTICONDUCTOR CABLES	44	0	47	39	33	44	48	CABLE FABRICATION	
R1170	3	CABLE FABRICATION - FABRICATE COAXIAL CABLES	51	0	52	82	33	56	56	INPUT/OUTPUT (PERIPHERAL DEVICES)	
R1171	1	INPUT/OUTPUT (PERIPHERAL DEVICES OR TERMS - WORK WITH	34	0	36	30	50	38	37	INPUT/OUTPUT (PERIPHERAL DEVICES)	

PCT M85 REQUESTS - YES - 393X3 DATA/CONNS/03 GPRS

TASK GROUP SUMMARY

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

**OCCUPATIONAL ANALYSIS PROGRAM
USAFORC (ATC) RANDOLPH AFB TX**

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

		ALL	SKL	SKL	SKL	US	O's
		SPC	SPC	SPC	SPC	SPC	SPC
		018	019	020	021	022	028
DY-TSK							
T1243	2 LASER SYSTEMS - USE OR REFER TO MONOCHROMATIC	0	0	0	1	0	C 0
T1244	2 LASER SYSTEMS - WORK WITH ACTIVE MATERIALS	0	0	0	1	0	C 0
T1245	2 LASER SYSTEMS - WORK WITH PUMPING SOURCES	0	0	0	1	0	C 0
T1246	2 LASER SYSTEMS - WORK WITH FULL SILVERED (100% REFLECTIVE)	0	0	0	1	0	C 1
MIRRORS							
T1247	2 LASER SYSTEMS - WORK WITH HALF SILVERED (92% REFLECTIVE)	0	0	0	0	0	0
MIRRORS							
T1248	2 LASER SYSTEMS - WORK WITH HELICAL FLASHTUBES	0	0	0	1	0	C 0
T1249	2 LASER SYSTEMS - WORK WITH RUBY	0	0	0	0	0	C 0
T1250	2 LASER SYSTEMS - WORK WITH HELIUM-NEON	0	0	1	0	0	C 0
T1251	2 LASER SYSTEMS - WORK WITH HELIUM-XENON	0	0	0	0	0	C 1
T1252	2 LASER SYSTEMS - WORK WITH XENON	0	0	0	0	0	C 0
T1253	2 LASER SYSTEMS - WORK WITH CESIUM-HELIUM	0	0	0	0	0	C 0
T1254	2 LASER SYSTEMS - WORK WITH ARGON	0	0	0	0	0	C 0
T1255	2 LASER SYSTEMS - WORK WITH NEODYMIUM IN GLASS	0	0	0	0	0	C 0
T1256	2 LASER SYSTEMS - WORK WITH GALLIUM ARSENIDE	0	0	0	0	0	C 0
T1257	3 DISPLAY TUBES - WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVST), MULTIPLE MODE STORAGE TUBES (MMST), OR SCAN CONVERTER TUBES (SCT)	3	0	3	2	6	2 DISPLAY TUBES
T1258	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - INSPECT	2	0	2	1	8	3 2
T1259	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - CLEAN	2	0	2	1	0	3 2
T1260	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - ADJUST OR CALIBRATE	2	0	2	2	8	2
T1261	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - REMOVE OR REPLACE TUBES FROM MAJOR ASSEMBLIES OR UNITS	2	0	1	2	9	C 1
T1262	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - TROUBLESHOOT CIRCUITS	1	0	2	1	8	C 1
T1263	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - REMOVE OR REPLACE TUBES FROM MAJOR ASSEMBLIES OR UNITS	1	0	2	1	8	C 1
T1264	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF DVST	1	0	1	2	0	0 1
T1265	3 DISPLAY TUBES - DIRECT VIEW STORAGE (DVST) OR MULTIPLE MODE STORAGE (MMST) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF MMST	0	0	0	0	0	C 0
T1266	3 DISPLAY TUBES - SCAN CONVERTER TUBES (SCT) - PERFORM TASKS THAT MAKE IT NECESSARY TO NAME VARIOUS ELEMENTS OF SCT	1	0	1	0	0	C 1
T1267	3 DISPLAY TUBES - PERFORM TASKS ON FLOOD GUNS	0	0	1	0	0	C 1
T1268	3 DISPLAY TUBES - PERFORM TASKS ON WRITE GUNS	0	0	1	0	0	C 1
T1269	3 DISPLAY TUBES - PERFORM TASKS ON REACT GUNS	0	0	0	0	0	C 0
T1270	3 DISPLAY TUBES - PERFORM TASKS ON ATTACK GUNS	0	0	0	0	0	C 0
T1271	3 DISPLAY TUBES - PERFORM TASKS ON ERASE GUNS	0	0	0	0	0	C 1

PCT MEMS RESP *YES* - 303X3 DAFSC/CONUS/OS GRPS

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

	TASK GROUP	SUMMARY	PERCENT MEMBERS PERFORMING	OY-TSK	16 TELEVISION											
					ALL	SKL	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
				OY-TSK	3	5	7	9	5	5	5	5	5	5	5	
				T1273 3 DISPLAY TUBES - PERFORM TASKS ON STORAGE GRIDS	0	0	1	0	0	0	0	0	0	0	0	
				TELEVISION (TV) SYSTEMS - PERFORM TASKS DEALING WITH TV	18	0	19	16	25	38	16 TELEVISION					
				SYSTEMS INCLUDING LOW LIGHT TV												
				T1274 4 TELEVISION (TV) SYSTEMS - INSPECT	16	0	17	14	25	32	15					
				TELEVISION (TV) SYSTEMS - CLEAN	13	0	15	10	8	26	13					
				TELEVISION (TV) SYSTEMS - ADJUST	16	0	17	14	9	32	14					
				TELEVISION (TV) SYSTEMS - OPERATE	16	0	17	13	8	32	15					
				TELEVISION (TV) SYSTEMS - TROUBLESHOOT WIRE	15	0	16	13	8	29	14					
				CONNECTIONS OF												
				TELEVISION (TV) SYSTEMS - TROUBLESHOOT MAJOR	14	0	14	13	8	29	12					
				ASSEMBLIES OF												
				TELEVISION (TV) SYSTEMS - TROUBLESHOOT DOWN TO COMPONENT	13	0	15	11	8	29	13					
				PARTS												
				T1281 4 TELEVISION (TV) SYSTEMS - REMOVE OR REPLACE MAJOR	13	0	15	11	8	29	13					
				ASSEMBLIES												
				T1282 4 TELEVISION (TV) SYSTEMS - REMOVE OR REPLACE COMPONENT	13	0	14	10	8	29	12					
				PARTS												
				U1283 1 PROGRAMMING - PERFORM PROGRAMMING TASKS	11	0	11	12	8	18	9 PROGRAMMING					
				PROGRAMMING - USE OR REFER TO DECIMAL SYSTEMS	7	0	6	9	6	9	6					
				PROGRAMMING - USE OR REFER TO OCTAL SYSTEMS	7	0	5	9	8	21	6					
				PROGRAMMING - USE OR REFER TO HEXADECIMAL SYSTEMS	2	0	2	2	2	8	3	1				
				PROGRAMMING - USE OR REFER TO 8-4-2-1 SYSTEMS	3	0	3	4	8	6	2					
				PROGRAMMING - USE OR REFER TO FOUR SYSTEMS	1	0	2	0	0	6	3	1				
				PROGRAMMING - USE OR REFER TO BINARY SYSTEMS	8	0	8	9	8	9	7					
				PROGRAMMING - USE OR REFER TO BINARY SYSTEMS (MULTI-SEQUENCING)	3	0	2	3	8	8	2					
				SEQUENCING)												
				U1291 1 PROGRAMMING - USE OR REFER TO DATA WORDS	8	0	6	11	8	12	5					
				PROGRAMMING - USE OR REFER TO ADDRESS WORDS	8	0	6	11	8	9	5					
				PROGRAMMING - USE OR REFER TO ADDRESS SUBADDRESSES	7	0	5	11	8	9	4					
				PROGRAMMING - USE OR REFER TO STEERING/INFORMATION	4	0	3	7	8	9	4					
				PROGRAMMING - USE OR REFER TO INSTRUCTION WORDS	6	0	5	6	8	9	4					
				PROGRAMMING - USE OR REFER TO DAP-16	2	0	0	1	5	8	4					
				PROGRAMMING - USE OR REFER TO BINARY CODED DECIMAL (BCD)	6	0	5	8	8	9	4					
				PROGRAMMING - USE OR REFER TO CONTROL WORDS	5	0	4	7	6	6	3					
				PROGRAMMING - USE OR REFER TO RESPONSE WORDS	4	0	4	5	6	6	4					
				PROGRAMMING - USE OR REFER TO WRAPAROUND WORDS	1	0	1	2	8	8	3	1				
				PROGRAMMING - USE OR REFER TO TO TEST OR DIAGNOSTIC	7	0	6	9	6	6	3	6				
				PROGRAMS												
				U1302 1 PROGRAMMING - USE OR REFER TO RELIABILITY PROGRAMS	5	0	4	7	8	9	4					
				PROGRAMMING - USE OR REFER TO COMPILERS	2	0	1	4	6	6	1					
				PROGRAMMING - USE OR REFER TO ASSEMBLERS	3	0	1	6	6	6	1					
				PROGRAMMING - USE OR REFER TO MACHINE LANGUAGE	3	0	2	6	6	6	2					
				PROGRAMMING - USE OR REFER TO MNEMONICS	3	0	1	6	6	6	0					
				PROGRAMMING - USE OR REFER TO ROUTINES OR SUBROUTINES	5	0	2	10	6	6	2					
				PROGRAMMING - USE OR REFER TO FLOW CHARTS OR DIAGRAMS	5	0	3	8	8	8	2					
				PROGRAMMING - USE OR REFER TO ATLAS	0	0	0	0	0	0	0					
				PROGRAMMING - USE OR REFER TO ELAN	0	0	0	0	0	0	0					

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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USAFORC (ATCH) RANDOLPH AFB TX**